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WALLACES' FARMER AND Iowa Homestead

Good Farming *Clear Thinking* *Right Living*

"What, Again?"

The news just heard on the radio by the Melford Rosander family, of Warren county, Iowa, when this picture was taken, wasn't exactly bad—but it wasn't good, either. Melford, his wife and sons—Merrill and little Phil—aren't quite sure whether to grin or scowl. Another drop in prices, maybe? Or was it a loss for their favorite basketball team? For the answer, turn to page 56.

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School Bus Won't Run In Mud . . Page 30

MARCH 5, 1949
IOWA'S LEADING FARM NEWSPAPER

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2 USE FIRESTONE HYDRO-FLATION
3 USE ONLY 12 LBS. PRESSURE

WALLACES' FARMER AND IOWA HOMESTEAD. March 5, 1949 (Volume 74, No. 5). Published first and third Satur- price, two years for One Dollar. Entered as second-class matter October 19, 1929, at the post office in Des Moines, Io-

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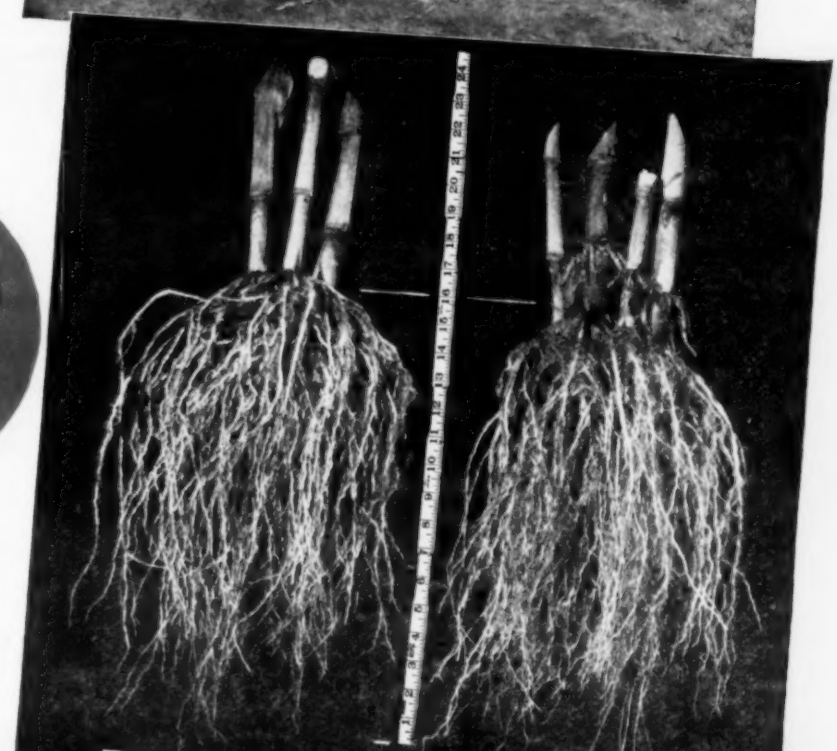

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"This is the finest chick starter we've been able to develop in 64 years"
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How New Chick Mintrate with Amazing Growth Power was developed
Several years ago we set out under direction of Dr. Elmslie to develop the finest baby chick starter possible. Information about new vitamins, new proteins, and their effect when used in new feed combinations, was gathered from the nation's leading poultry authorities and combined with our own research.
Hundreds of formulas that used such new ingredients as penicillium meal, butyl fermentation solubles and condensed fish solubles, and new vitamins such as choline, riboflavin and niacin, were developed. Rigid tests brought out a few outstanding feeds. These were tested again and again with various ingredient combinations. This repeated research developed one formula which gave such sensational results that even we were surprised.
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Dr. Elmslie received his Ph.D. Degree from the University of Wisconsin in 1928, and has been in charge of Moorman Research since 1929. He is recognized as one of the nation's leading animal and poultry nutrition specialists. The widely known use of sodium fluoride for removing large roundworms from hogs was first developed under his direction.
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CUSTOM-MADE FOR SPECIFIC NEEDS

Corn crib on Boone county, Iowa, farm makes it unnecessary to sell corn 30 cents below market price.

You Can Get A Corn Crib Free

Difference Between Market and a Loan Will Pay Crib Cost

FARMERS with outside corn can't sit on it much longer. They will have to move the corn or sell it within the next few weeks.

Corn that is without a good roof will get wetter unless the spring is unusual. March rainfall averages about 1.79 inches, compared with 1.08 for February.

With spring rains and warm days, mold will start its work. Corn will get musty, sour, and may turn black.

But the market price during the last of February was about 30 cents below the loan rate on corn. Some farmers are asking questions:

Could corn prices reach the loan rate before corn spoils?

Some people think corn will go back up to the loan rate of about $1.36 in Iowa. But will it happen soon enough?

The central markets, according to Iowa grain men, are now getting their corn from eastern corn belt states.

Farmers in Illinois, Indiana and Ohio are said to have still more corn that can't be made eligible to seal. They may keep the market supplied until May.

There is still the feeder demand. Feeders have bought corn in some sections near the loan rate.

If there is no prospect of selling corn to feeders, you may have to do something else to prevent losing 30 cents per bushel. The loss might be greater than 30 cents when moisture discounts are considered.

Can corn in round cribs, or corn under a poor roof, be made eligible for loans?

To be eligible for a corn loan, the moisture must be down to 20.5 per cent in March, 17.5 per cent in April and 15.5 in May. The corn must be off the ground and have a roof approved by the corn-sealing authorities.

Even if the moisture content is now above the limits, you should be able to get the corn sealed, if you can find cribs. You have until June 30 to seal the corn. It should dry out by that time.

The only danger is that the corn is so wet that it will spoil before it dries out. Corn above 22 per cent moisture now would be in danger. But moving the corn will dry it some.

Can corn be made eligible for the purchase agreement even if it can not be sealed?

Under the purchase agreement, you get the loan price for the corn when delivered. But you have to deliver corn that will grade No. 3 or better.

So, in case you are using the purchase agreement, be sure that the corn will dry out and come out in fair shape. If corn has high moisture, it might be safer to try to get the loan.

No. 3 corn must have not more than 17.5 per cent moisture, total damaged kernels must not exceed 7 per cent, heat damaged not more than 0.5 per cent, and the minimum test weight is 51 pounds.

Can a farmer afford to build a crib to make corn eligible for a loan or a purchase agreement?

Many farmers last fall built semi-permanent cribs for 25 to 30 cents per bushel. Temporary cribs were built for less. You can save the entire cost of the crib by sealing the corn. Then you will have the crib for next fall, when cribs may be needed worse than now.

Ready-made cribs that are eligible for corn sealing may be bought at around 30 to 75 cents per bushel of capacity. After sealing corn this spring, the crib would have earned all or a large part of its cost.

Any time that more than 10 cents per bushel can be made by providing storage for corn, it looks like a good business deal.

Can corn be dried artificially and made eligible for loans?

If the corn is in a crib that will be approved by the corn loan authorities, and only moisture content prevents loans, a crib drier would dry the corn down to the 20.5 per cent eligibility in March.

But corn can be shelled and dried. Some companies are reported to be drying corn at costs varying from 8 to 12 cents per bushel. Shelled corn for sealing must be down to 13.5 per cent moisture. The PMA will rent you a bin to seal the shelled corn, or it can be sealed in your own bin.

Is there any corn that it will not pay to try to seal and that should be sold for what it will bring?

If corn has already spoiled to some extent it is probably best to sell it for what it will bring before warm weather comes.

But nearly all poorly cribbed Iowa corn can be made to bring the sealing price of about $1.36 as an average for Iowa.

When figuring the expense of building or buying a crib, remember that you may need a crib next fall for sealing corn. If you build this spring, you will be ready next fall.

Editorials

Need Four Months' Notice Of Lease's End

THIS is moving week for many Iowa and corn belt farmers. A lot of trucks will be on the road this week and next if the weather gives folks a chance.

Many farmers who aren't moving, and some who are, will remember with gratitude the Iowa law which says that notification of the end of a lease on March 1 must be given by November 1.

That four months' notice gives a farmer a chance to look around. Iowa farmers in general approve the law and think it fair and necessary.

Yet in every session of the Iowa legislature, somebody brings in a bill to repeal this law. Worse than this, the Iowa supreme court, in two decisions, has knocked most of the teeth out of the act.

Now the landlord can put into the lease a provision which says, in effect: "I'm giving you notice now. So I won't have to in November." That almost nullifies the law.

Some of the farmers in the Iowa legislature are taking a look at this situation. They think the law can be amended now so that it will hold good no matter what is written into the lease.

When either a tenant or a landlord changes his plans, the other fellow is entitled to four months' warning so he can have time to hunt for a new farm or a new tenant.

DIG DEEP!

You can find 'most anything in this freezer — pies, bread, cake, meat, vegetables. Stewart Elson, Jr. (5) and Kelly (2) are looking over the supply. Mrs. Stewart Elson, of Dallas county, Iowa, finds—like many farm women—that the freezer saves many trips to town, makes better meals, cuts down time spent in preparing meals.

Don't Raise Corn For Open Market

DON'T plant more corn this year than you can feed or seal. Anybody who raises corn that must be sold on the open market next winter may not get more than 80 or 90 cents for it.

You can get $1.30 or better next winter on the corn loan if you have a good crib. You can probably get that much for corn if you feed it to livestock. But free corn may go cheap.

Check your livestock program, and your plans for buying or building cribs. Then decide how many acres to plant to corn.

If Spring Pigs Eat 90-Cent Corn

HOW many bred sows and gilts are farmers holding for spring farrowing? In early December, Iowa farmers said they were increasing the number of spring-farrowing sows by 18 per cent over last year. On January 1, the Iowa livestock count showed a similar gain.

But that was two months ago. How many sold sows in February?

Everybody is sure that early pigs will pay well. Most farmers are hopeful about sows farrowing up until the middle of May. Later pigs may hit a poorer market.

Yet, even a farmer who has worries about hog prices next winter may admit that corn prices will be even lower. If you can buy free corn for 90 cents per bushel next fall, even $13 hogs would make a profit.

What happens next winter on the hog market depends partly on what the government does. If reasonable support prices are announced for the winter of 1949-50, and if these supports are backed up by compensatory payments, then the farmer can go ahead more cheerfully with plans for expanded hog production.

In the meantime, take care of your early pigs. And push them along. Late pigs are a worry, but there's no doubt that early pigs, marketed early and light, will make money.

Will Prices Go On Down?

Not If Pay Rolls Stay High And Farmers Use Price Supports

FOR a good while, farmers have been telling themselves that war booms always had to end, and that they wouldn't be surprised when prices started down.

In Wallace-Homestead Polls, farmers in Iowa regularly reported that they expected sharp declines in hog prices in the future. Actually, up to now, farmers have been more pessimistic than the facts.

Because farm people in the corn belt did anticipate a price decline, many cut down mortgages, others refused to bid up on land, and most of them built up cash reserves in the form of U. S. Savings Bonds.

FARMERS were prepared for the drop. And yet—prepared or not—it was a shock when corn, hogs and beef cattle prices tumbled so sharply.

Talking about it is one thing. Actually having it happen is another.

Beef cattle men caught it the worst, of course. They bought high-priced feeders, put costly feed into them, and then ran into a price drop.

Hog producers are still making money, but less than they had expected to make.

Free corn has gone below a dollar at times. That's far below parity. But a loan or a purchase agreement still keeps a lot of dry corn at 90 per cent of parity.

This makes many farmers say: "Yes, I've been hurt by the drop. But not much. What I'm really worried about is what happens next. Is this just the start of a big slump?"

WE KNOW that farm supplies are large. They are big enough to force heavy price declines, unless demand is strong. What about demand?

Employment and pay rolls are high. Industrial production is high.

Federal spending for military expenditures at home and for relief abroad will continue to be strong.

Most of the experts say business should continue fairly good for the balance of 1949—altho they raise a few questions about the last quarter.

But business can be good, at the same time that some farm products go downhill. Here, the federal program of price supports can help.

Corn prices will be supported by the loan—provided that farmers build or buy enough cribs and bins this summer.

Hog prices can be supported—provided the government uses compensatory payments and doesn't rely on buying pork on the market.

FROM now on, things are going to be tougher for the farmers. Everybody knows that. But farmers in the corn belt are rich in equipment, cash and experience. All three can be used to see that farm people get thru this post-war period a lot better than they did after World War I.

More Exports May Help Lard And Beans

LAST fall, Wallaces' Farmer and Iowa Homestead told farmers that the future of prices for heavy hogs and for soybeans turned largely on the government's export policy. If limits on exports were removed, and if ECA helped to ship fats and oils abroad, the chances were good for lard and soybeans. If the government held down exports, lard and soybeans would drop.

Until recently, exports of fats and oils have been limited. Lard and soybeans have suffered. Now—and very late in the day—the restraints on exports are being lifted. Prices of fats and oils are looking a little better.

Next month, western Europe will have new ECA funds to use to purchase American goods. Some of these funds may go for lard and soybean oil. Nobody knows just how much, but there is a chance of improvement.

To Keep The Granary From Running Over

MOST farmers think it would be sensible to build up big reserves of corn. Another drouth might come along. Or another war.

If we plan on an ever-normal granary, with a billion bushels of corn in it, we'd need corn loan prices high enough to stimulate corn production for several years.

How high would that have to be? A dollar a bushel would keep some farmers busy raising corn. Maybe a loan figure of $1.27 (80 per cent of parity) would raise enough corn to fill the granary.

But after the granary was full, then what? Dr. Geoffrey Shepherd, of Iowa State College, suggests that a 1 per cent increase in the carry-over of corn might properly bring a 1 per cent drop in the loan price.

On that basis, if we had a carry-over of one billion bushels in 1950, and added 100 million bushels in 1951, the loan figure would be cut 10 per cent. If the old loan was $1.27, the new one would be $1.15.

The tough question here is: "What effect does a drop in price have on acreage? Think what you would do on your own farm. If the corn loan happened to be $1.27 in one year, and was cut the next year to $1.15, would you cut corn acreage? And, if so, how much?

Farmers all know that when the corn price gets very low, a drop in price does not result in a cut in acreage. Back in 1932, low prices made some farmers plow up pastures and put in more corn.

At higher price levels, a reduction in the loan will usually cut acreage — at least among farmers who see a place to use that acreage in a more profitable way.

Everybody knows that it is easier to fill up a granary than to keep it from running over. But we have to learn to do both.

Hog Price Next Winter?

ARE you raising spring pigs this year? Then your prospects for a good price for hogs next winter have improved a lot in the last week.

On February 25, Secretary Brannan announced the government would support hog prices at 90 per cent of parity thru March, 1950.

Up to that time, hog supports at 90 per cent of parity were promised only until January 1, 1950.

There was danger of a big flood of hogs reaching the market in December, with prices breaking away below supports.

Now Secretary Brannan has assured hog raisers that they can count on supports of 90 per cent of parity—somewhere around $16.50 at Chicago—thru March, 1950.

We congratulate Secretary Brannan on taking this action. Wallaces' Farmer and Iowa Homestead has, as our readers know, urged such a step for some time.

The next job for the Department of Agriculture is to make sure that these support prices will really take hold.

Wallaces' Farmer and Iowa Homestead believes that the only way farmers can be sure of getting support prices is to have the government step in to pay farmers the difference between the support price and the market price if the market price drops below the support level.

Odds *and* Ends

HOW many acres of oats will you seed to grass or legumes this spring?

THREE million unemployed are not many, but when one worker loses a job, his neighbor spends his pay more carefully.

TOO MUCH economy in Iowa's mental hospitals is paid for by wrecked lives. A lot of patients could be sent home, cured, if Iowa spent more on first-class help for these institutions.

CORN loans haven't held up the price of free corn to the loan level. Government buying of pork won't hold up the price of hogs to the support level if things get tough.

YOU can't make money any more just by holding and waiting for the price to rise.

GET your plans ready for a farm water system so work can start when the ground thaws. That hot water and shower bath should be ready by the time you start harrowing corn ground.

INDUSTRIES that cut prices and keep factories going are the ones that are preventing a depression. The folks who fire workers and keep prices up are inviting trouble for everybody.

THIS is the year to push early pigs hard and sell light by early September. Early broilers will pay, too.

NO DRAFT for farm boys for a while, at least. The army is getting more men than it needs thru voluntary enlistments.

WITH federal aid decreasing, state colleges need more appropriations than they have been getting, just in order to keep going at the old speed.

RESEARCH in the best ways for folks to raise corn, feed hogs, get along with other folks is one of the most important jobs of state schools. Research costs money, but it pays big dividends.

BEFORE the war, AAA committeemen generally wanted to keep price supports flexible—a high loan value for a small crop and a lower loan for a big crop. Many corn belt Farm Bureau men, on the other hand, worked hard for high and rigid corn loans.

NOW the AAA folks want corn loans high and fixed. Farm Bureau men are asking for flexible supports. At least, it proves that both groups are able to change their minds.

VETERANS will get around two billion dollars this year in state bonuses. They'll have a big payment from the Veterans Administration on insurance, too.

Song of the Lazy Farmer

ONE job that I look forward to is plannin' what my wife should do to ease the cost-of-living sting when garden time rolls 'round this spring. The nicest pictures you can see are in seed catalogs, by gee; it's fun to while away the hours with printed veg'tables and flow'rs. It makes me hungry just to look at all the stuff that's in the book: Tomatoes plump and scarlet red and cabbage bigger than my head; I'd swear those carrots stretch a foot. I'm sure you wouldn't have to put no butter on beets' purple hide, they look as if it grows inside.

I figure that Mirandy needs about an acre's worth of seeds; that should be just about enough to grow the quantity of stuff that we can eat or put in cans, and also I must make some plans to hire the plowin' done and show her how to sharpen up the hoe. I s'pose I'd better draw a chart so she will know how far apart to plant the squash and turnip greens and how to stake up all the beans; and then, to make sure there's no waste and guarantee the proper taste, I'll buy her an instruction book on better ways to can and cook.

Besides the commercial cattle and the hogs which he raises, A. R. Clause, of Grand Junction, Greene county, has a small herd of purebred Aberdeen Angus cattle.

Fred Dubbert lives on the family homestead in Pocahontas county.

Seven New Master Farmers

IN 1926, this publication started the program of honoring Iowa farmers for outstanding achievements in agriculture and good citizenship. That first year, 14 men were named Iowa Master farmers.

The seven men pictured here just joined 110 men and one woman who have received the Master Farmer award since 1926.

Just how were they selected? A lot of people helped pick them. First came nominations. From all over Iowa, persons who are farmers or closely connected with agriculture nominated their friends and neighbors.

Accompanying the nomination was a score-card. It covered three phases of farm activity — Good Farming, Clear Thinking and Right Living. Sometimes, several persons nominated one farmer.

Right Now Maynard Menefee's main interest is in the building up of a high-producing herd of Holstein dairy cattle on his ninety-acre farm in Dallas county.

Wallaces' Farmer and Iowa Homestead editors checked these nominees, filled out the additional field reports and score-cards.

Finally, a committee composed of the state secretary of agriculture, Harry Linn; the head of the department of agricultural economics at Iowa State College, William Murray; the current president of the Master Farmer Club, Fred K. Bruene, Gladbrook, and editor Donald R. Murphy ranked the contenders.

These seven men were named 1948 Iowa Master Farmers:

A. R. CLAUSE
GREENE COUNTY

Clause, 56, is one of Greene county's good livestock producers. His specialty is beef cattle and hogs. He farms 510 acres in partnership with two of his sons; owns 400 acres of that.

As an outgrowth of the boys' 4-H work, they also have a herd of purebred Aberdeen Angus cattle. A good rotation has been of help in building up the fertility of his land.

Clause is interested in efficiency; has a granary that doubles as a 12,000-bushel self-feeder for cattle. It will handle 100 head of steers.

He is active in community and church projects; was a charter member of the Greene county Farm Bureau; is an SCS commissioner, and served on the school board for many years.

Clause is proud of the fact that, as president of the Grand Junction school board, he presented high school diplomas to all of his six children. Four of the children are college graduates; five are married.

FRED DUBBERT
POCAHONTAS COUNTY

Not a grain farmer like many others in the Wisconsin drift soil area of Iowa, Dubbert, 52, specializes in pork and beef production. He raises around 30 litters of pigs a year; usually feeds 25 to 50 Whiteface heifers.

His buildings reflect planning to make choring easier and more profitable. His fertile farm reflects his knowledge of crops and soils, a subject he once taught at Iowa State College.

Dubbert has been active in Farmers Union, Farm Bureau, AAA, school and church work. He was on the Laurens school board 14 years.

His oldest son graduates from Iowa State College next June; after that, Dubbert plans to farm in partnership with him. Another son is in the navy; a daughter is in high school at Laurens.

MAYNARD MENEFEE
DALLAS COUNTY

You don't have to be a big operator to deserve the Iowa Master Farmer award. Menefee, 40, operates a 90-acre farm. A former tenant, like so many other Master Farmers, Menefee purchased his farm thru the Farmers Home Administration farm ownership program.

Menefee paid off the FHA loan in six years.

Menefee milks Holstein cows, has a herd average of 355 pounds of fat. One cow with a 520-pound record points the way to the kind of herd he wants. He also specializes in market hogs, has a good poultry flock.

Menefee has been president of his county Farm Bureau, is active on his church board, on the Farmers Home Adminis-

It's Easy to get the Master Farmers to to give you a look at their prize livestock. Harry Reese, of Adams county, is proud to show his purebred Guernsey bull.

Clinton County Master Farmer John P. Schnack gets a lot of enjoyment out of feeding his steers. His oldest son, Guenther, is in the background in this picture.

tration board, and in other community activities. He has one young son.

HARRY REESE
ADAMS COUNTY

Reese, 47, is a dairyman and pork producer. He has a fine herd of purebred Guernsey cattle, and has made outstanding records in commercial hog production.

The only Flying Farmer in this group, he and his son own an airplane, plan to farm in partnership next year. Reese is chairman of the Adams county soil conservation district, has a complete soil conservation plan in operation on the 214 acres he owns.

His also is a program of increasing soil fertility with legumes, rotation pasture, manure, fertilizer and soil conservation.

Even with his big dairy herd and lots of hogs, he has given much time to community work. He has been a member of the Iowa Dairy Industry Commission, an officer of the Iowa Guernsey Cattle Club, active in the county Farm Bureau, in school and church affairs.

His daughter is married, lives on 160 acres near the home farm.

JOHN P. SCHNACK
CLINTON COUNTY

The first Master Farmer to be selected from a county famous for its good farmers and good livestock, Schnack, 47, owns 253 acres of land. He feeds cattle, and also does an outstanding job of raising hogs.

Schnack has two sons and two daughters. The family has a very nice farm home. Schnack is active in a number of agricultural and church activities; gives freely of his time and energy to community affairs.

He came to this country in 1922, worked three years as a farmhand to pay for his transportation; started farming on a poor farm with his brother. Later, the partnership was dissolved.

Of that period, Schnack says: "If my brother and the landlord would have asked for the money due them, I couldn't have paid the bill."

In 1936, with a Federal Land Bank loan, he bought 153 acres, and has since bought another 100 acres.

He has had to do a lot of building improvement on his farm, and has brought it to a high state of productivity by the use of lots of manure, long rotations and fertilizer.

PETER SIDLES
APPANOOSE COUNTY

Sidles' farming operations stand out because of the way in which he planned his program to fit the problems of his area.

Poor soil has been tackled thru a long-rotation, livestock enterprise; erosion is being licked by contouring, strip-cropping and terracing, as well as with the livestock enterprise.

He carries a 40-cow beef herd, runs about 50 ewes. Enough hogs are raised to make use of all the grain produced on the farm.

Sidles, 53, is extremely active in school, church and agricultural affairs. He is especially interested in the twin southern Iowa problem of schools and roads. He is a long-time Farm Bureau member, an organizer of the county SCS district, has been both an AAA and FHA committeeman.

He has five children. Two boys and a girl are college graduates; two younger sons are attending high school at Seymour.

RICHARD STEPHENS
WASHINGTON COUNTY

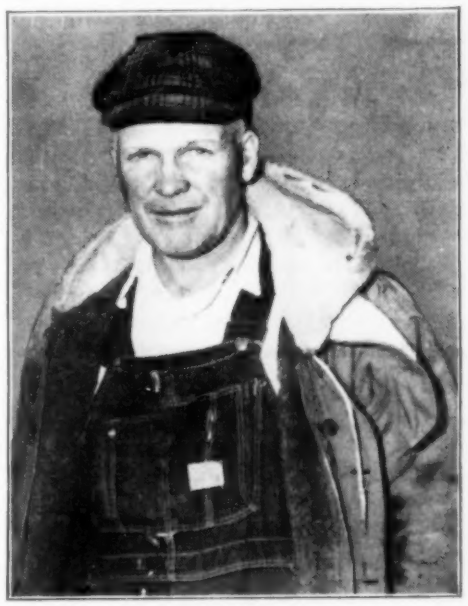
You probably have heard of Stephens, 46, as vice-president of the Iowa Farm Bureau Federation. He is also one of the state's outstanding large-volume commercial hog producers, and a good cattle feeder.

He normally raises and feeds out about 1,000 hogs a year, may feed 100 to 150 cattle. Sows farrow in three groups—in September, February or March, and June.

Stephens started farming in 1926 on a place owned by his father. In 1933, he rented another place for cash rent. He bought his first 160 acres in 1936, now owns 760 acres.

Right now, the Iowa Farm Bureau takes most of the time Stephens is able to devote to outside activities. Yet it has not replaced his other interests. He still finds time to be active in local community, school, church and agricultural organization affairs. With all this, he still knows what it is like to work out in the hog lot.

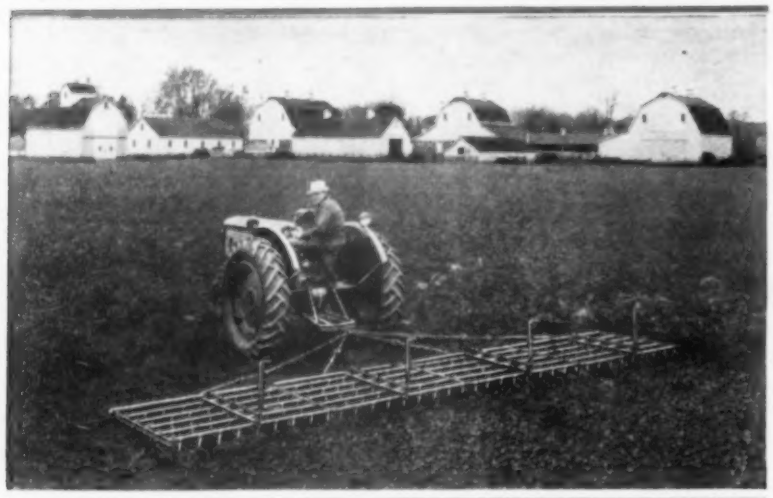
Stephens has two sons. He says that if he has a hobby, it is farm management.



Conservation of the soil is one of the main interests of Peter Sidles in operating his Appanoose county farm.

Actually all the wives of Master Farmers should receive credit with their husbands. Here are Mr. and Mrs. Stephens, Washington county. Hog raising's his specialty.

ON TOP *the* JOB!



FASTER, BETTER Harrowing

THE MAN who owns a KEWANEE Folding Harrow is always on top of the job. He is able to take advantage of favorable soil and weather conditions. His seedbeds are ready to plant at the *right* time. That's because the KEWANEE does an amazing harrowing job never before thought possible. It is the first harrow really engineered for tractor power and *high speeds.* Its vital features are original, **Patented** and exclusive and cannot be duplicated.

Farmers say the KEWANEE harrows **50% faster** and does a better job, once over, than most harrows do in twice over the field. You get better seedbeds . . . kill more weeds . . . save one or more cultivations . . . and produce bigger crops. *Ask any* KEWANEE *user.*

Only KEWANEE has long **Welded Teeth** that take a real "bite" of the soil. Streamlined and self-clearing. No clamps, bolts or extended teeth to gather trash and slow up harrowing. No delays, lost teeth or impaired work. You save *time, work, money!*

More teeth per section, diamond-shaped and dagger-pointed. Cuts every 1½ inches. *Finer pulverizing, better seedbeds—bigger crops!* **Patented Short-Center Tractor Hitch**—harrow does not dig in at the front or raise out of ground at the rear at fastest tractor speeds.

Amazing Folding Feature! Two outer sections fold over to go thru farm gates. Easy to fold. Easy to transport. Easy to store. Farmers pronounce it the greatest improvement in all harrow history!

See your KEWANEE Dealer right away! Make sure of owning America's No. 1 Harrow this present year. Don't settle for less than the KEWANEE. No other harrow like it. Write for Free Folder.

All-Purpose *Kewanee*

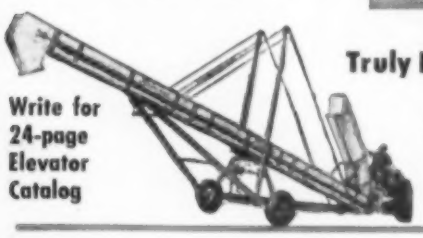
LARGEST CAPACITY ELEVATOR BUILT

Engineered to handle big loads with the speed that's needed in these fast-moving days of high-speed tractors, 2-row pickers, combines and balers.

Tops for Ear Corn, Bales and Grain. Wide clearance for all baled crops. Handles the new, bigger ears of hybrid corn without crowding or shelling. New Hydraulic Hoist speeds unloading of big trucks and wide flared wagons.

Be ready for harvest this year . . . with the elevator that will store your crops faster, easier and at less cost.

Choose the new, big capacity KEWANEE. Don't send a boy to do a man's job. Don't settle for less than the best. Investigate *today.*



Write for 24-page Elevator Catalog

Truly Portable—Moves in Minutes

Easy to move from crib to crib or from farm to farm. Backs into position on the crib in a "jiffy."

Strongest-ever supporting derrick. Holds boom rigidly in position while moving or in any operating position.

KEWANEE MACHINERY & CONVEYOR CO., KEWANEE, ILLINOIS

"BUILT FOR SPEED" *Kewanee* **FOLDING HARROW**

Makers of the Famous KEWANEE Farm Elevators

INSIDE STUFF

ANOTHER WAY to get rid of a surplus is to make a superior product and sell it at a bargain. That's what orange people are doing with frozen orange juice.

▲ ▲

I BOUGHT a chunk of this frozen juice the other day for 19 cents. It makes a pint and a half of first-rate orange juice, as tasty as if you had just squeezed it out. And much less trouble and expense.

▲ ▲

FROZEN JUICE also tastes better than canned juice. And costs less. The orange surplus may melt as more of the juice is frozen.

▲ ▲

CONGRATULATIONS to the Iowa Holstein breeders on setting up a dairy scholarship as a memorial to my old friend, Paul P. Stewart. Breeders are contributing heifer calves to the memorial fund.

▲ ▲

THIS WILL produce $300 a year to help some student of dairy husbandry thru Iowa State College. This is the kind of memorial Paul would have liked.

▲ ▲

AT IOWA CITY lately, Pollsters Gallup, Crossley and others met to discuss the election and the polls. One man summed up the problem of predicting elections this way:

▲ ▲

"WE HAVE 90 MILLION folks who can vote if they want to. But only about 50 million do vote. When you interview nine people, how do you find out which four will not vote and which five will?"

▲ ▲

POLLS ARE USUALLY able to hit within 4 points of the correct answer. If the polls say Candidate A will get 44 per cent of the vote, you can be fairly sure he will get somewhere between 40 and 48 per cent.

▲ ▲

TROUBLE COMES when the poll shows Candidate A will get 49 per cent. That means he may get between 45 and 53 per cent. Or that he may either win or lose.

▲ ▲

SOME SUBSCRIBERS may remember a story about Black Hawk that Charlton Laird wrote for this paper years ago. We printed it serially.

▲ ▲

NOW, LAIRD has retold the story in book form. Called "Thunder On the River" (Little, Brown, $2.75), it has just been published.

▲ ▲

BY ANY STANDARD, Black Hawk was one of the great men of our middle-west. He made a hard fight for his corn fields and his people against a foe too strong for him. That foe—your great-grandpa and mine—fought dirty, too.

▲ ▲

ONE OF THE NASTIEST bits in American history is the record of the ship Warrior, puffing up and down the river, with its crew shooting at Indian women and children as they tried to swim or paddle across.

▲ ▲

I LIKED BLACK HAWK better than the white men in Laird's book. Maybe that is what the author intended.

▲ ▲

HOOVER'S COMMISSION on reorganizing the federal government suggests that the army engineers go back to the army. The commission seems to think civilian agencies can build dams better.

▲ ▲

MANY FARMERS would say the army engineers are able to build good dams, but that they are apt to build them too big and in the wrong places.

▲ ▲

MORE MONEY for the Soil Conservation Service and less for the big dams of the army engineers would make sense.

▲ ▲

DID YOU KNOW that South Carolina does not have a secret ballot? You ask for the ballot of the party that you intend to vote for. Everybody knows how you vote.

▲ ▲

MOST STATES QUIT that years ago. I remember my father telling how he and the other new voters were lined up, given party ballots and marched into the polls. This was in Madison county, Iowa, in the eighties.

▲ ▲

BUT IOWA GOT OVER this years ago. I thought every state had. But South Carolina, Georgia and some other states still provide for voting in a goldfish bowl.

▲ ▲

I WONDER how many farmers creak these days when they sit down to milk a cow, or find little pains stabbing at their joints when they step out in zero weather?

▲ ▲

MAYBE OLDER farmers should insist that the next big research job at the Iowa City hospital be in the field of rheumatism. Of course, I know the best remedy:

▲ ▲

"TURN UP the temperature to 90 degrees, and put some green grass underfoot. Add young radishes and new asparagus to the ration."

▲ ▲

IT WILL BE SPRING in a month now. And none too soon!

DONALD R. MURPHY.

WALLACES' FARMER AND IOWA HOMESTEAD

(Volume 74—Number 5)

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WEAN PIGS WEIGHING

up to 50 lbs... the Ful-O-Pep Way!

FUL-O-PEP PIG STARTER

saves labor... grows pigs fast!

WHAT a *pig feed!* M-m-m . . . U-m-m . . . pigs really like Ful-O-Pep Pig Starter . . . start eating it when only 7 to 10 days old.

What a *labor-saver,* too! Ful-O-Pep Pig Starter is a *complete, balanced, economical* pig ration by itself. Just put it in the creep . . . no grinding, mixing or measuring is necessary.

And what *nutrition!* Many farmers report Ful-O-Pep grows pigs weighing up to 50 lbs. by regular weaning time . . . and, as you know, each *extra pound at weaning* means several extra pounds at 5½ to 6 months!

You see, *vitamin-rich* Ful-O-Pep Pig Starter is no ordinary pig feed. It was built around *wholesome, nutritious rolled oats* . . . and fortified with Concentrated Spring Range*—*Nature's Richest Vitamin Combination* for sound health and fast growth.

So this spring feed Ful-O-Pep Pig Starter in the creep *to get ahead* of next fall's big runs. You can bet your shirt your pigs will like it! Plan to see your local Ful-O-Pep Dealer soon.

*Reg. U.S. Pat. Off.

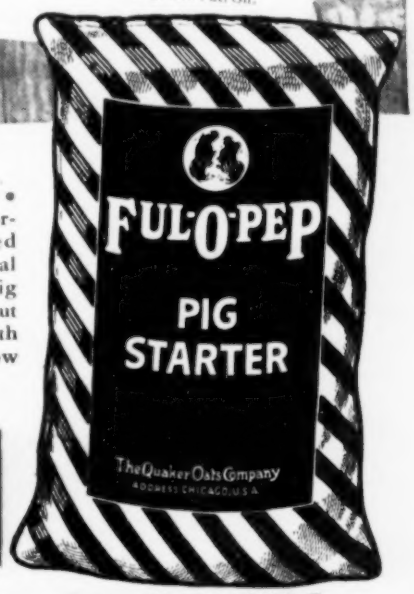
JACK HICKS' pigs weigh up to 60 lbs. at weaning

"In my opinion the wholesome rolled oats and Concentrated Spring Range in Ful-O-Pep make it an *outstanding hog feed.* Last spring, I fed my sows Ful-O-Pep Pig-N-Sow Feed and grain, and my suckling pigs Ful-O-Pep Pig Starter. The pigs weighed up to *60 lbs. at weaning age.* After weaning they made *exceptional* gains on Ful-O-Pep 40% Hog Concentrate and grain."

(*Signed*) Jack Hicks
Hiatuville, Kansas.

EXCLUSIVE...

Ful-O-Pep Pig Starter is fortified with Concentrated Spring Range. This special Vitamin Boost promotes pig health and growth. Just put Pig Starter in the creep with water. Pigs like it . . . grow fast, too!



FREE PIG BOOK

FUL-O-PEP FEEDS

Look for This Sign for Dependable Feeds

It identifies your friendly Ful-O-Pep Dealer . . . who sells quality Ful-O-Pep Poultry and Livestock Feeds containing Concentrated Spring Range. He is one of your neighbors . . . a man who has invested his own money to bring quality feeds close to your door. You can depend on him for practical advice on feeds and feeding. See him soon!

MAIL THIS COUPON NOW!

THE QUAKER OATS COMPANY, Dept. C-89
Chicago 4, Illinois

Please send my FREE copy of the 1949 Pig Book containing complete information of the Ful-O-Pep Hog Plan that speeds hogs to market.

Name.....

Address.....

Town.....*State*.....

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Give Your Equipment . . .

"Lubri-tection"!*

Phillips 66 Premium Motor Oil Helps Prevent Repairs By Lubricating and Protecting!

Give your farm equipment Phillips 66 Premium Motor Oil and you're giving it "Lubri-tection"... lubrication *plus* engine protection!

Here's why: Phillips 66 Premium gives you the great lubricating qualities you'd expect from an oil expertly refined from selected crudes. And you get the *added* protection of compounds we put in the oil especially to fight the double menace of sludge and varnish!

Ask your Phillips 66 dealer or tank truck salesman about the experiences other farmers have had with this great lubricating oil. More and more farmers are learning to depend on Phillips 66 Premium every day!

*"*Lubri-tection*"—*the protection rendered by an oil of fine base stock containing special detergent and oxidation inhibiting ingredients.*

PHILLIPS 66 PREMIUM MOTOR OIL

Worth Looking Into—PHILLIPS 66 TRACTOR TIRES!

Your Phillips 66 dealer or tank truck salesman can now supply you with high-quality Phillips 66 Tractor Tires. Talk to him about this latest addition to the famous line of Phillips 66 Farm products.

FOR BETTER SERVICE...PHILLIPS 66

Little pigs should always be provided with a creep or a pen of their own. As soon as they are a few days old, they will nibble at their feed. And the more they eat, the faster they will grow.

Plan Pasture For Spring Pigs

Good Forage Reduces Feed Consumption And Helps Get Hogs To Market Quicker

NOT everyone is lucky enough to have a good legume pasture ready for their spring pigs. But, even if you've moved to a new farm and were unable to do any seeding last year, you can still get spring hog pasture.

Growing pigs require a ration rich in protein, containing an assortment of amino acids. It should be high in available mineral content and rich in vitamins.

Pasture offers one of the best ways to reduce the amount of these materials that must be provided thru grains and supplements. In addition, pasture makes sanitation easier and reduces manure hauling. It's the place to grow hogs.

Rye is one of the earliest pastures. But rye for early hog pasture should have been seeded last fall. Legumes, and especially alfalfa, make the best hog pastures. They, too, had to be seeded last year. Sudan grass or sweet clover can be used for later pastures; generally, hogs don't like sweet clover very well.

If you have to start from scratch this spring, rape seeded alone or with oats is one of the best crops. Dwarf Essex is one of the best varieties.

Oats alone make a good pasture while they last, but they don't last long enough. With the right kind of a season, rape will make good hog pasture all summer until frost.

Since an acre of good pasture may save as much as 1,000 pounds of corn and 500 pounds of supplement, it is worth any extra work it takes to build fence to provide pasture. Other experiments say the same thing in another way. They show good pasture worth at least 250 pounds of pork per acre.

Legumes or rape in good seasons will carry 25 or 30 pigs per acre if the pigs get a full feed of grain.

Rape can be seeded from early in the spring until corn is laid by. For early pasture, it is often seeded with oats; when seeded alone, it takes about eight weeks to get enough growth to provide pasture.

From four to six pounds of rape is the usual rate of seeding with oats. It grows best when summers are cool and moist.

Rape is almost as high in protein, on a dry-matter basis, as alfalfa. It has one fault if you grow white hogs. Sometimes sun-scald is a problem.

If you plow a piece of land for hog pasture, work it down so you have a firm seed-bed. The pasture crop will establish itself better. And hogs won't "punch it up" so badly early in the spring.

Blue grass is a good early and late pasture, but doesn't offer much forage for hogs in midsummer. If you plan to use blue grass, it might be well to consider a field of sudan grass for the midsummer months.

Sudan should be seeded after the soil has warmed up. It will come on by the time blue grass growth is slowing down.

Legumes Not Always Soil Builders

"Legumes are not soil builders when they are grown on exhausted, "tired" soils, says Dr. William Albrecht, of the University of Missouri.

For example, on soils which are deficient in nitrogen, phosphorus, potash and calcium, legumes take but little nitrogen from the air. Their protein content is so lowered that grasses grown on a fertile soil may have a higher protein content than do the legumes which are grown on poor soil.

It Costs You Less to Make Good Hay with CASE

THE BALER MOST ANY FARMER CAN AFFORD TO OWN

● **The Case tractor side-rake** has a 4-bar reel, geared slow. It handles hay gently, builds high, fluffy windrows at fast tractor speeds. Available in both standard and heavy-duty roller-bearing models. The Case Trailer-Mower, shown at top, hitches quickly to most any modern tractor. There are also mounted mowers for Case tractors.

● **The Case Forage Harvester** is simple and fast, built from the beginning for *both* standing corn or other silage row-crops and windrowed hay—either green for silage or cured for barn storage. It also chops and loads combined straw for bedding. Easy on power, it makes the most of tractor capacity, hustles the harvest of any forage crop.

● The big thing in hay quality is *timing*. With your own Case Slicer-Baler you can start baling at the very hour your hay is at its peak, before sun-bleach steals color and vitamins, before over-curing causes leaves to shatter. Every hour you gain cuts down the risk of damage by rain or dew.

The Case Slicer-Baler is used by more farmers than any other. It is so moderate in price that most any farmer can afford his own. It is free from complicated mechanism—so simple that boys operate it. Years of use have proved it so sturdy that it takes very little upkeep. From hay on the ground to bales on the wagon it requires but little labor. You save on everything—money, time, labor and feeding values.

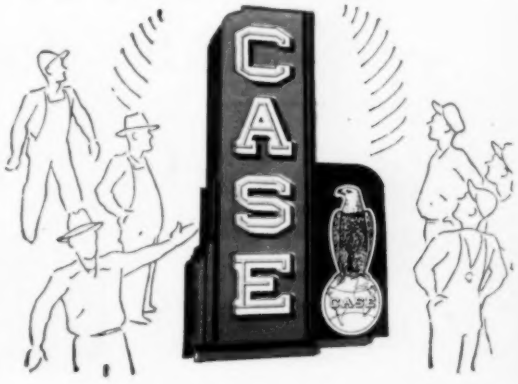
With a Case Slicer-Baler you get firm, neat bales of uniform size. It uses the standard wire tie—proof against weather, insects, rough handling and long hauls. The bales open up into portions like sliced bread, easy to feed without knocking off leaves.

Now equipped with new feed auger, this low-cost baler works fast in all crops. It handles windrows from 7-foot swaths at the same speed as tractor mower and rake. It "stays in step," to give you uniformity of curing—to put up *all* your hay at its prime.

Quality in hay pays big rewards—by milk in the pail, by finish on growing animals, by savings of grain and protein concentrates. Plan now to get these gains by putting up your hay the prompt, low-cost way—with a Case Slicer-Baler.

LOOK IN ON YOUR CASE DEALER

See him at headquarters for advanced farm practices, marked by this sign of the 20 great Case tractors and 77 modern farm machines. Look to him for first-class dealer service. Ask him or write us for free booklet "How to Make High-Protein Hay." For catalog or folders, mention any size of tractor, any kind of haying or harvesting machine, plow or harrow, planter or grain drill, cultivator, spreader, corn picker or binder, hammer mill or farm truck you may need. Address Dept. C-80, J. I. Case Co., Racine, Wis.



You can't beat 2-4 Dow Weed Killer, Formula 40

for an effective, economical weed killer. Thousands of acres have been sprayed with FORMULA 40 and the results prove that it is the best amine salt weed killer you can buy! This year, FORMULA 40 is *even better!* An improved formulation gives you these important, new advantages:

- **Works Equally Well in Hard or Soft Water!**
  No more troubles with hard water
- **No Clogging of Spray Equipment!**

In corn, in wheat, in all small grains, FORMULA 40 is tops. Every effort has been made to give you *top quality* . . . the best weed killer possible. Ask your dealer about 2-4 Dow Weed Killer, FORMULA 40...the weed killer that really goes to work!

For other weed problems, find out about these reliable Dow Weed Killers . . . tested, proved for farm use.
ESTERON 44 . . . for hard-to-kill weeds and woody growth
ESTERON 245 . . . for control of woody growth, brambles, poison ivy
DOW SELECTIVE WEED KILLER . . . for flax, peas and grains interplanted with legumes

Dow Weed Killers

AGRICULTURAL CHEMICAL DIVISION
THE DOW CHEMICAL COMPANY • MIDLAND, MICHIGAN

FREE!

Your WEED CONTROL DIGEST is waiting for you at your dealer. Here is the latest information on *How and When* to control weeds by chemical spraying. An up-to-the-minute, simplified chart of approved weed control methods for your crops. Get your WEED CONTROL DIGEST at your nearest dealer or write directly to Dow, Dept. 290-9.

DOW
CHEMICALS INDISPENSABLE TO INDUSTRY AND AGRICULTURE

Farmers Ask About Income Tax

Checks Received Before January 1 Are Income For 1948, Whether Cashed Or Not

FARMERS who filed an estimate of their 1948 federal income tax on January 15 have to file a final report by March 15. Here are answers to questions most often asked about filling out the report:

If crops were delivered to market in the last days of 1948, but the check was not cashed until 1949, in what year is the income reported?

If corn, for instance, was delivered in 1948, if the price and grade were agreed upon, and all you had to do was to pick up the check, then the income should be reported for 1948. That comes under "constructive receipts."

If the corn was delivered, but the sale was not completed, then report the income for 1949.

This point, of course, is important only to farmers who report on the cash receipts basis. It makes no difference to the accrual basis tax-payer whether corn is reported as inventory or as a sale.

What are classified as repairs to farm buildings, and what is capital investment?

A new roof, or an addition to a building, would be capital investment. So would new stanchions, or electric wiring in the barn.

Capital items are deductible in this way: If a roof costs $400, and is figured to last 16 years, deduct $25 per year as depreciation.

Patching up an old roof, replacing a rotted sill, or replacing bricks and pointing up a foundation are repairs. Deduct the whole cost of materials and hired labor for the year in which the repairs were made.

How do you figure profits on farm property treated as capital assets?

Add these three items to find cost: (1) Price paid when acquired, or value when acquired if by gift or inheritance; (2) cost of improvements added; (3) sale cost.

To find what you received for the property, add two items: (1) Sale price and (2) depreciation allowed or allowable during the time you owned the property.

Then you subtract to find the profit or loss. If you held the capital assets over six months, only 50 per cent of the profit is taxable. If a loss occurred, the loss is fully deductible. (The $1,000 limitation does not apply on property you use in farming.)

What sales of farm property qualify under the capital assets rule?

The farm itself, farm machinery and work stock. Also, under certain conditions, milk cows and breeding stock.

Your sales of cows qualify under the capital assets rule if sold to reduce the size of the herd, or if sold for replacements with a different breed or quality of stock. They must have been held over six months and in use on the farm at the time of sale.

Brood sows kept to raise one litter, and then sold on the market, are not usually held for six months as brood sows, and therefore could not qualify.

Purebred animals raised to be sold to others are not capital assets. They are your product, and therefore are ordinary income when sold. Breeding stock must be used on your farm to qualify.

If you take the standard deduction, or use the tax table, can any taxes be deducted on the Farm Schedule?

All taxes connected with operating your farm can be deducted on the Farm Schedule. This includes real estate taxes, personal property taxes and sales and use taxes on farm machinery, etc.

It is personal taxes, such as state income taxes, taxes on your home, sales taxes on food, etc., that you can not deduct on Form 1040 if you use the standard deduction or tax table.

What can you do if your tax return is questioned?

You can ask for a so-called "30-day letter," which explains the claim for additional payments. If you believe you do not owe the additional tax, ask for a hearing before a representative of the collector's office. You have 30 days to make this request for hearing.

Don't sign a waiver, or make additional payments, if you believe the additional tax is not due and you want a hearing.

Where To File Iowa Income Tax

To the Editor: Where do we file our Iowa state income tax reports? Where can we get blanks for making report?—S. C., Appanoose County, Iowa.

Your Iowa state income tax report is filed with the Income Tax Division, Iowa State Tax Commission, Des Moines 7, Iowa. Deadline for filing is March 31.

Blanks for filing the return may be obtained from most banks or from the above address.

No State Income Tax On Machinery

To the Editor: How about capital gains on the Iowa state income tax? Does the federal tax ruling on sales of machinery, work stock and breeding stock apply here, too?—G. S., Howard County, Iowa.

No. The Iowa law has its own definition of capital assets.

Under the Iowa law, capital gains are not taxable and capital losses can't be deducted. You don't have to report sales of machinery or land. These are capital assets.

But Iowa income tax payers must report the sales of work or breeding stock. They are not considered capital assets.

If a farmer sells a cow he has raised, the entire sale price is entered on the return. If the cow was purchased, the profit or loss from her sale is entered.

Amazing New Life-Giving LIVIUM Helps

SAVE MORE CHICKS

"They're ALL Alive!"

HOW MANY TIMES HAVE YOU caught yourself dreading to make that early morning trip to the brooder house . . . afraid you'll find some of your precious little chicks didn't live through the night? Whose fault? Yours? . . . the FEED? . . . or What? Now you can go to the brooder house with greater confidence if you feed Crumblized Nutrena Chick Mash stepped-up with "Livium". This amazing new chick-saving, life-giving vitamin substance "Livium" makes Nutrena Chick Mash the SAFEST CHICK FEED in Nutrena's long history.

NO CHICK CAN LIVE WITHOUT IT!

The presence of the "Animal Protein Factor" in certain feed ingredients has long been known both to scientists and feed manufacturers. It is a "*must*" in *any* feed. But, it was mysterious and difficult to control.

Science at last found the answer to positive control in the new vitamin substance which Nutrena carefully blends with other materials to make "Livium". Nutrena is *proud* to bring you this great advance in chick nutrition. Now, with "Livium" in Crumblized Nutrena Chick Mash you can eliminate one more chick-raising hazard.

Sensational New Vitamin Discovery Most Important Chick Feed Development In Years!

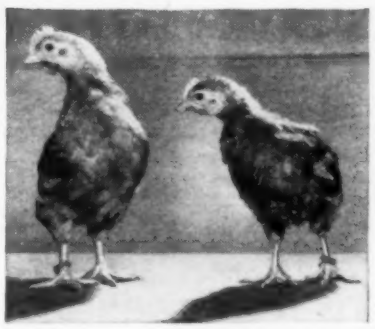
Nutrena Stepped-Up With "Livium" For Greater Chick Growth And Life Protection!

ONLY NUTRENA GIVES YOUR CHICKS "LIVIUM"

Today, the new mystery vitamin substance contained in "Livium" steps-up Crumblized Nutrena Chick Mash to make it the *safest* baby chick feed in Nutrena's history! Now, Nutrena can help you *save* more chicks, have stronger chicks than ever before. And, ONLY Nutrena Chick Mash contains "Livium".

"What is Livium"?

Scientists have long known that one of the secrets to chick life and growth lay in a mysterious vitamin substance which they called the "Animal Protein Factor". Fish meal, meat scraps and other feed ingredients contain some of it, but the amount varies a great deal. There was no way to control the amounts of this vital substance in the feed.



At Nutrena's Biological Laboratories, tests show the amazing growth power of "Livium". At 4½ weeks of age, the chick that got "Livium" in its ration weighed 42% more than the chick that didn't get any "Livium".

Positive Control

After many months of research, scientists discovered a way to make a powerful concentrate of the "Animal Protein Factor". The process is very similar to that used in making Penicillin. This newly discovered product is blended with other materials by Nutrena to make "Livium".

New Safety

Now for the first time your chicks can get the life-giving advantages of this new vitamin discovery. Crumblized Nutrena Chick Mash is stepped-up with "Livium" for greater safety—greater protection for the lives of your baby chicks.

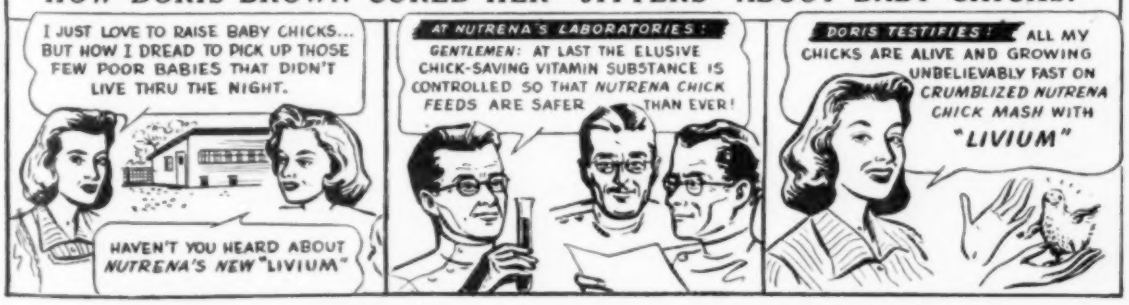
As for the feed itself, it is the same good old dependable Nutrena Chick Mash feeders have demanded year after year. The difference—and what a difference!—is "Livium".

Don't Take Chances!

Don't take chances with the lives of your precious baby chicks! See your Nutrena dealer today to make sure YOU will be able to get Crumblized Nutrena Chick Mash containing "Livium".

C. H. "Tub" North, Manager of Nutrena's Proving Farms, says, "For years, poultry raisers have looked to Nutrena for the latest advances in the field of poultry nutrition. The announcement of 'Livium' seems to me to be the greatest of all. Everyone will welcome Crumblized Nutrena Chick Mash stepped-up with 'Livium'."

HOW DORIS BROWN CURED HER "JITTERS" ABOUT BABY CHICKS:



NOTICE TO BROILER AND TURKEY GROWERS:

Crumblized Nutrena Broiler Mash and Crumblized Nutrena Turkey Starting Feeds are now also stepped-up with life-saving LIVIUM to protect your birds and profits.

ASK FOR CRUMBLIZED! Nutrena CHICK MASH

BE SURE · BE SAFE · BE THRIFTY

Stepped-Up With LIVIUM © 1949

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WHR HELMSMAN 89th

samples the

ROLLED BALE

and approves

You might call this a $61,000 taste test. With that kind of a price under his hide, WHR Helmsman 89th, the all-American record priced Hereford Bull, might well be choosy about his menu. With the rolled bale he can be.

The luscious, protein-rich leaves are locked inside, gently rolled up like a carpet. These bales are twine-wrapped (no wire), weather-resistant, easily handled and stacked, easily fed from the stack, on the range or in the feed rack.

With the coming of the rolled bale, western ranchers are realizing greater feeding value from their brome grass, alfalfa and native grasses. Hiwan Ranch at Evergreen, Colorado — owners of WHR Helmsman 89th — consider their new Allis-Chalmers Side-delivery Rake and Roto-Baler important improvements in their feed-handling equipment.

ALLIS-CHALMERS
TRACTOR DIVISION • MILWAUKEE 1, U. S. A.

Workday Pointers

HEAT BULBS and all electric wires should be kept out of reach of the sow in the farrowing pen.

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GROUND CORN COBS do a good job of keeping farrowing pens dry. Pigs don't get tangled up in them, either.

▲ ▲ ▲

GRASS AND GRAIN crops for the year are hurt when livestock is permitted to run on wet land while the frost is going out.

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MILK COWS should be put on full feed gradually after freshening, say Purdue dairy specialists. They say four to six weeks is not too much time to spend getting a good producer on full feed.

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SLOW MILKERS are made by bad milking practices during the first lactation. Stimulate the young heifer's udder by wiping it with a warm cloth, and then milk her rapidly and completely.

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AN ALFALFA SEEDING of 12 pounds per acre places about 60 alfalfa seeds on each square foot; a 7½-pound seeding of red clover means about 52 seeds per square foot. Only a small per cent survive under the best conditions.

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BEFORE YOU SIGN a contract for corn borer spraying in 1949, read it carefully and see if you have anything to say about the time when the spraying is to be done. If not done at just the right time, spraying for corn borers is money wasted.

▲ ▲ ▲

LAMENESS, swelling above the hoof or blisters between the toes are signs of foot-rot in cattle or sheep. The first thing to do is to get them out of the muddy feedlots. Hoof-trimming and disinfectant foot-baths are recommended. Foot-rot is a stubborn disease, and if your stock gets it you may need the services of a veterinarian.

GUARD RAILS in the farrowing pen should be 8 to 10 inches above the floor and 6 inches from the walls of the pen.

▲ ▲ ▲

IF YOU FEED milk cows while the milking is being done, you can expect the dust from the feed to add to the sediment in the milk.

▲ ▲ ▲

THERE'S STILL TIME to build temporary corn cribs and get a corn loan or sign a purchase agreement. The corn should be moved at once, but you have until June 30 to sign the papers.

▲ ▲ ▲

ANEMIA PREVENTIVE solution for little pigs is made by dissolving one pound of copperas in one quart of hot water. Swab the sow's udder or give the solution to the pigs with a spoon. A piece of clean sod placed in the pen each day is a good preventive.

▲ ▲ ▲

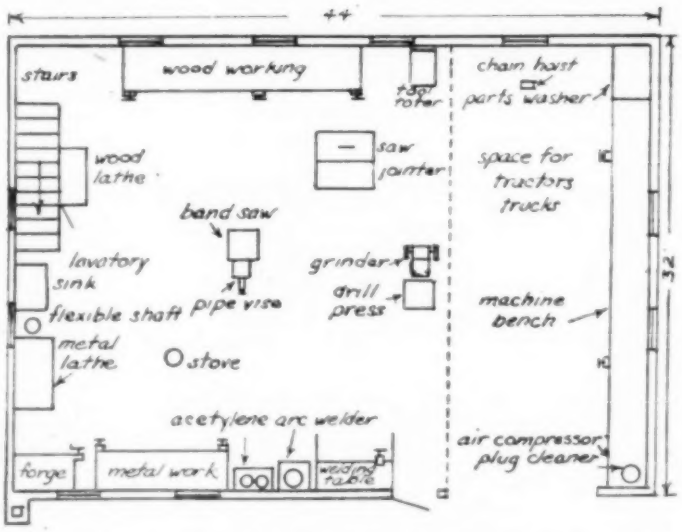
HIGH-PRICED clover and alfalfa seed call for better practices at seeding time this spring. An extra disking or harrowing may make a good stand with 10 per cent less seed than you usually sow. A half-bushel less oat seed per acre will give the legume seed a better chance.

▲ ▲ ▲

THE DEADLY GAS — carbon monoxide—can be produced by stoves or furnaces as well as by automobile exhausts. The greatest danger is when trying to keep a low fire. It's dangerous to cover the red coals completely over with new fuel, or to close the damper in the pipe too tight.

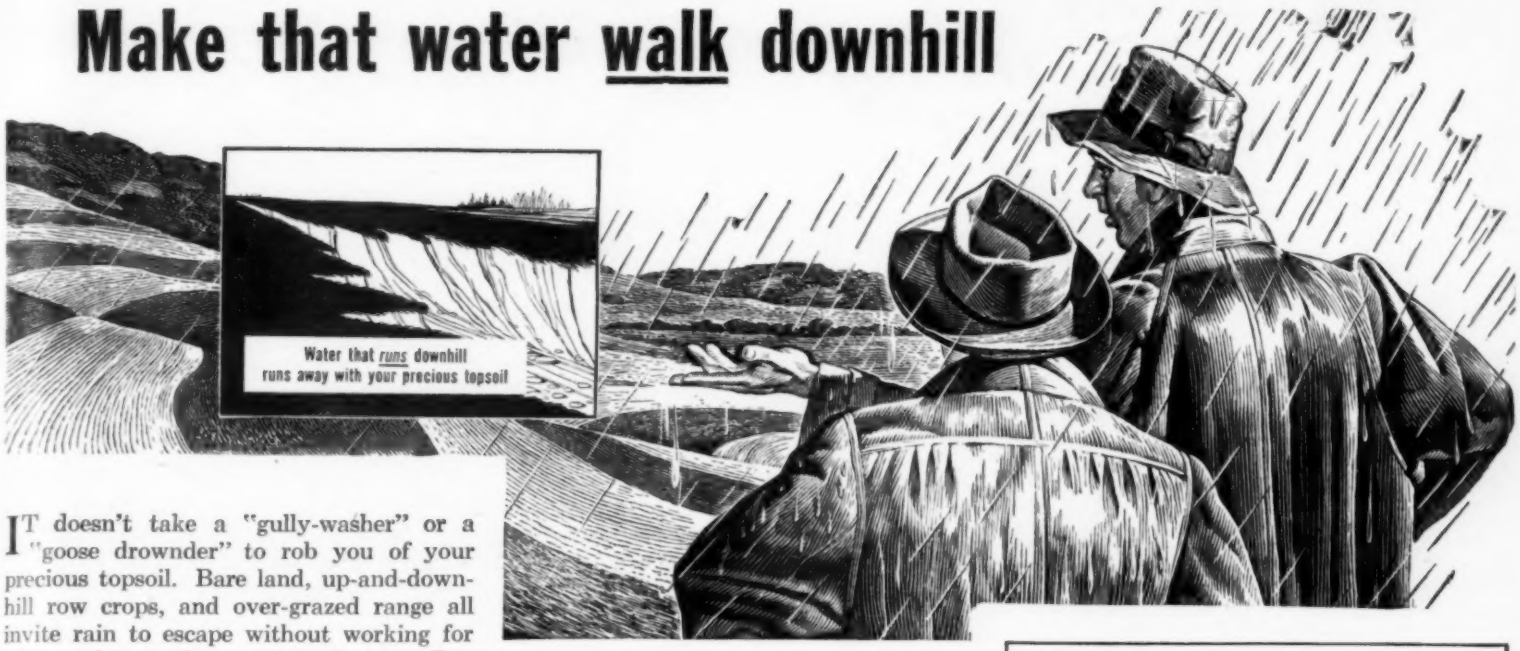
▲ ▲ ▲

GARDEN FERTILIZER can be applied broadcast. It requires about twice as much fertilizer as compared with row application, but the labor saved in a garden would be more than the cost of extra fertilizer. Some apply half the fertilizer before plowing and the other half at planting time.



Farm Shop Plan may give suggestions for your future shop. Notice the metal working units on one side, with welding table and forge. On the other side is the woodworking table, with saws and lathe. Everything is provided, including sink and stairs to attic. One end has room for storing cars and trucks. This building plan, by the Lincoln Arc Welding Foundation, is scaled for 32x44 feet in size. The general plan would be useful, even tho you wished to build a smaller shop.

Make that water walk downhill



IT doesn't take a "gully-washer" or a "goose drownder" to rob you of your precious topsoil. Bare land, up-and-down-hill row crops, and over-grazed range all invite rain to escape without working for you—and to erode your topsoil away. But sod or cover crops act like a blotter to absorb and hold the growth-giving water. Slopes and hillsides tilled on the contour, with alternating strips of crop-land and grass, save maximum amounts of water, hold erosion to a minimum. Flatter fields may be subsurface-tilled to keep the protective rain-absorbing trash on top. Correct rotations of crops, which include plow-under crops, will help absorb and hold moisture.

You need *lots* of water. *It takes about 200 barrels of water to grow one bushel of corn.* That's around 625,000 gallons for every 100 bushels. And most other growing plants also require large amounts of moisture . . . You can't control the amount of rainfall you get. But you *can* conserve it, so that every drop does the best possible job of making grass or crops for you.

As farmers and ranchers in every state well know, water has a "split personality." It can be your ally, or a devastating foe. Lashing rains can erode away inches of fertile topsoil in a short time. But it takes nature 300 to 1,000 years to rebuild each lost inch. That's why the control of water is so important in a good land management program. Considerable progress in erosion control has been made in the past ten years. But we've still got a long way to go! Hundreds of millions of productive acres are endangered by erosion and gullying. They're washing away! Only good land management can save our soil and keep America strong. *It will pay you—and all of us—to make that water walk downhill.*

Soda Bill Sez:

The feller who rolls up his sleeves seldom loses his shirt . . .

If you must stir up a mess of trouble, use a long-handled spoon . . .

New Grass Varieties

by Wilkie Collins, Jr.
Soil Conservation Service
Lincoln, Nebraska

Wilkie Collins, Jr.

Good pasture is the key to production of more meat, milk and wool, at lower cost. In addition, a good cover of grass protects your soil against wind and water erosion. When you have improved pasture, or range, good livestock and a sound conservation program, you have a profitable combination.

Many new grasses have been developed in recent years. Several of these promise to become real money-makers for livestock men. They outyield old grasses, give a longer grazing season, and provide better soil protection.

1. Smooth Brome—The Lincoln, Auchenbach and Fisher strains give higher yields, are easier established and withstand summer heat and drought better in the central, eastern and southern brome areas.

2. Intermediate Wheatgrass—A high-yielding, sod-forming cool-season grass that is easier to establish than most varieties. It is highly palatable and does exceptionally well in the central and northern plains and western mountain area.

3. Sand Lovegrass—Highly palatable, especially well adapted to sandy soils.

4. Tall Wheatgrass—A high-yield cool-season bunchgrass that does better than other grasses under alkaline conditions.

5. Ky-31 Fescue—High-yielding, supplies longer grazing, especially good for southern and southeastern states.

6. Russian Wild Rye, Blackwell Strain or Switchgrass, Hays Buffalo Grass, Yellow Bluestem and Sweet Sudan are other new or improved grasses for adapted areas.

Grasses usually give higher yields and better quality forage when grown in association with an adapted legume.

A System that Works!

I get riled up when I hear talk of changing our system of government, or our system of doing business, here in America. Sure, there's always room for improvement. But you can improve a house without wrecking the building! Any system that produces worthwhile results must be a pretty good one. I think our way of doing things has worked out mighty well for Americans.

Here we are—about 6% of the world's population, living on less than 6% of the world's land. Yet, through what I like to call our "three I's"—Initiative, Ingenuity and Industry—we have created the American way of life. We enjoy greater freedoms than the other 94% of the world's people. We have educational opportunities for all . . . schools, colleges, universities, libraries. And 48% of the world's radios. As just one measure of personal comfort and convenience, we have 92% of the world's bathtubs. We have a motor vehicle for every four people. And more than 286,000 miles of paved roads for them to run on.

Most important of all, thanks to your system of agricultural production, we have plenty of food for all of us—and enough to help feed our less fortunate neighbors. Yes, I think it's worth getting riled up in favor of the American System now and again.

F. M. Simpson.
Agricultural Research Dept.

Growth

As every boy and girl should know,
Big oaks from little acorns grow.
And that's the way with business, too.
Your growth depends on the job you do.

Gustavus Swift, away back when,
Slaughtered a heifer, and he then
Peddled the meat, also the hide.
Got back the cost . . .
a small profit beside!

From that small start in this big land
Swift kept pace with the job at hand.
As the job grew bigger, Swift grew, too.
Yes, growth depends on the job you do!

OUR CITY COUSIN

"See the lambs gamboll" City Cousin turns pale,
For back in his city they put gamblers in jail!

Martha Logan's Recipe for

BEEF PLATE WITH HORSERADISH SAUCE

(Yield: 3 to 4 Servings)
1½ pounds beef plate floured
2 tablespoons shortening
1 teaspoon salt
½ cup sliced onions
½ cup chopped celery or celery leaves
1½ cups water

Cut meat into serving pieces and dip in flour. Melt shortening in heavy kettle. Brown meat well on both sides. Add salt, onions, celery, and water. Cover and cook 3 hours. Serve with Horseradish Sauce.

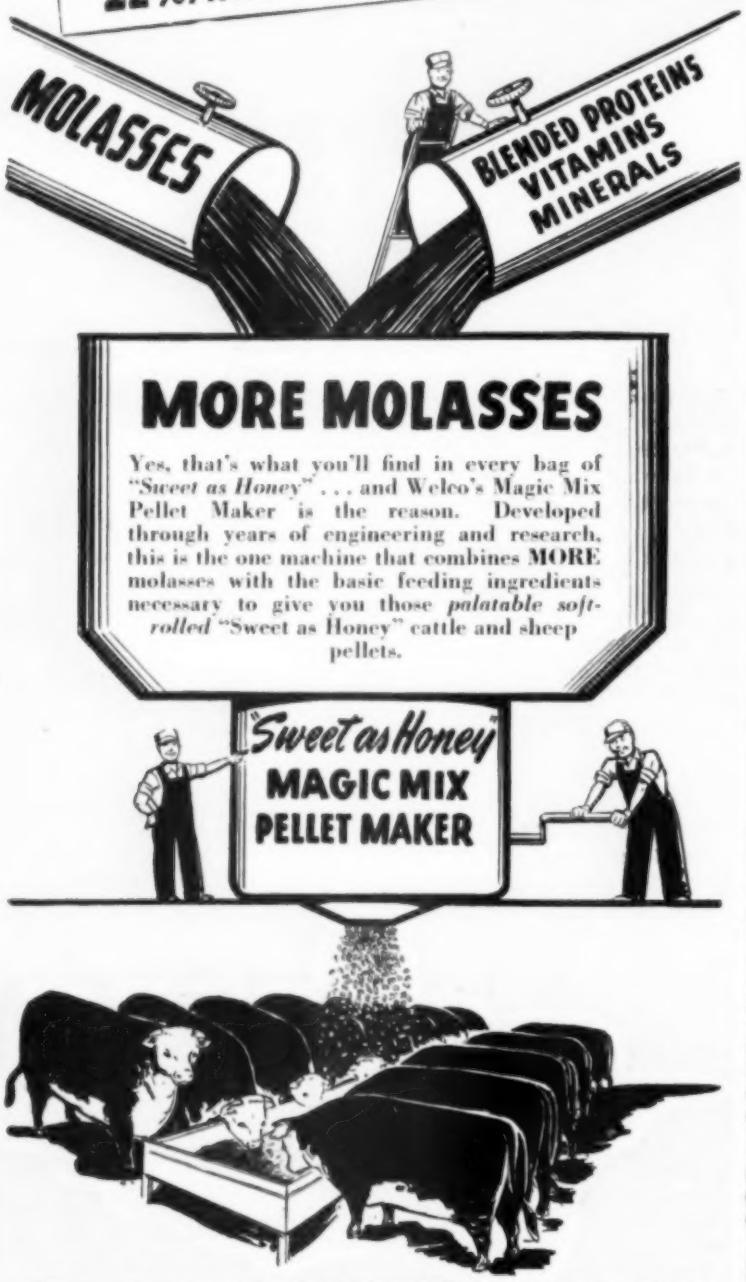
HORSERADISH SAUCE—Melt 2 tbsp. butter or margarine in a saucepan, blend in 2 tbsp. flour, mixing well. Slowly add 1 cup milk, stirring until well mixed, and thick and smooth. Add 1 tsp. salt, 3 tbsp. lemon juice, 1 tbsp. sugar, ⅔ cup horseradish. Cook over low heat until thoroughly heated.

Swift & Company
UNION STOCK YARDS, CHICAGO 9, ILLINOIS

Nutrition is our business—and yours

MORE MOLASSES..

with "Sweet as Honey"
SOFT ROLLED PELLETS
22% PROTEIN • ROLLED IN COTTONSEED MEAL



MORE MOLASSES

Yes, that's what you'll find in every bag of "*Sweet as Honey*" . . . and Welco's Magic Mix Pellet Maker is the reason. Developed through years of engineering and research, this is the one machine that combines **MORE** molasses with the basic feeding ingredients necessary to give you those *palatable soft-rolled* "Sweet as Honey" cattle and sheep pellets.

"*Sweet as Honey*" with MORE MOLASSES increases the palatability of your feeds. MORE Molasses . . . yet easy to feed. No stickiness . . . no caking in the bag . . . coated with cottonseed meal, "Sweet as Honey" pours like shelled corn in winter or summer. Cattle and sheep crave the sweet rich flavor of 22% "Sweet as Honey," which draws them to the feed bunk and KEEPS them on feed. Creates thirst and keeps them drinking plenty of water with their feed. "*Sweet as Honey*," with more molasses, is not only palatable, but contains those vital proteins, vitamins and minerals so necessary for fast prime finish at lowest cost per pound. "Sweet as Honey" also makes an ideal dairy supplement. Feed 1 lb. per head per day. See your "Sweet as Honey" dealer today for full information and prices.

SEE YOUR DEALER

There's a "*Sweet as Honey*" dealer in your community. Consult him for feeding information and prices, or write us for free illustrated feeding folder. *Dealers wanted.* Write us for name of your nearest carload distributor.

WELCO FEED MFG. CO. *Spencer, Iowa*

Labor-Saver is the overhead pipe that carries ground grain from mill (at left) over hog house to feeders in either of two pens. The system is used by Eugene Fitz, Marshall county, Iowa. Fitz is a Berkshire breeder, showed champion boar at 1948 State Fair.

Not Much Future For Lard

Raise Meatier-Type Hogs And Sell At Lighter Weights, Says Farm And Home Week Speaker

LARD is the black cloud on the hog raiser's horizon. Soybean oil has joined cottonseed oil as a lard competitor. Lard has become cheaper per pound than live hogs.

Hog raisers don't need to worry much about meat consumption. We will raise bigger feed crops and bigger hog crops. But we will have more and more people to eat meat.

These ideas were put forth during Farm and Home Week at Iowa State College last month. The speaker was G. B. Thorne, vice-president of Wilson & Company, meat packers.

The lard problem, said Thorne, doesn't have packers and hog raisers licked entirely. Hogs can be marketed at lighter weights. We can raise a meatier type of hog. Hog buying methods that pay producers on the carcass basis are worth considering.

Thorne's general optimism for the hog raiser is based on a survey of both feed production and the probable demand for meat.

"Total crop production is 35 per cent higher than pre-war," he said. This increase, he believes to be permanent.

"These higher yields are largely the result of factors that are here to stay, such as improved seeds, disease control, mechanization, and so on."

More feed means more hogs, Thorne continued. Who will eat the meat? Thorne pointed to population changes:

"There are 15 million more people in the United States than before the war. We have 12 per cent more people to feed than in 1940. Our population is expected to increase a million a year for the next decade."

On the lard problem, the hog raisers were told that changing tastes had hurt lard while helping meat consumption. Southern people are changing over to red meat. That leaves more of the fat backs for lard.

How lard prices have gone down compared with prices of live hogs is shown by comparisons running back almost 40 years.

Lard was $1.46 per hundred higher than live hogs from 1910 to 1919 at Chicago. Lard was $2.58 higher from 1920 to 1929. In the thirties, lard was worth $1.35 more than live hogs. Lard was only 40 cents higher than live hogs from 1940 to 1946.

Then lard got cheaper than hogs. In 1948, lard was worth $1.35 less per hundred than hogs. For the month of January of this year, the difference was $1.42.

"Here is the contrast," Thorne said. "In 1910 to 1919, lard was $4.46 over live hogs. Last month, lard was $4.42 under hogs."

But Thorne said he didn't want to say the lard problem is hopeless. Then he brought up the question of hog weights and type.

"Lard prices lead directly to the question of hog weights," Thorne said. "As hogs get heavier, the percentage of lard gets greater."

Marketing more hogs at lighter weights was suggested to the hog raisers. But, said Thorne, that is not the whole answer.

"There are differences in the proportion of primal cuts in hogs of equal weight and equal dressing percentage." This seemed to suggest the necessity of breeding hogs for the meaty type.

Marketing methods are connected with this problem, too. If farmers don't get paid more for meaty hogs of the right weight, they are unlikely to go to the trouble of producing them.

"Wilson & Company," Thorne said, "would welcome an improved system of hog buying that . . . would permit more refinement in buying according to cut-out performance.

"We have a feeling," he continued, "that if a sound method of determining value of hog carcasses is developed, we will find a way to reflect this back into live hog buying, so that producers can clearly see what kind of hogs the market wants."

120 BUTTONS PER MINUTE with these new IH corn planters

Here is the IH No. 240 (2-row) planter with fertilizer equipment—planting at the rate of 35 acres in 10 hours. Both the No. 240 and No. 440 planters can be used for check-row, power hill-drop and drill planting. Tension pay-out stake assures accurate cross-check to row-ends.

Fast planting at popular tractor speeds is done with "bull's-eye" accuracy by the new No. 240 and 440 International Harvester corn planters.

New high-speed boots help explain why these new planters will *precision-drop* at speeds up to 120 buttons per minute. (That means 240 hills a minute with the 2-row planter and 480 hills a minute with the 4-row planter.)

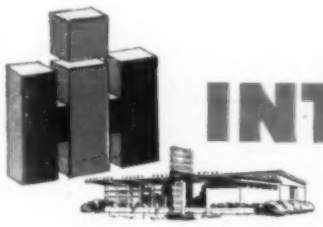
The boot mechanism has quick, positive action to deposit kernels without "slobbering" and group the seed to make strong plants. Heavy-duty frame construction aids planting accuracy by holding furrow openers and all working parts in perfect alignment. And the variable drop will put exactly the 2, 3 or 4 kernels to the hill you want.

Both the No. 240 and No. 440 planters can be equipped to roll on low-pressure pneumatic tires that cover furrows and firm soil around the seed, without compaction. The tires also absorb shock for speedy transport of the planters over rough roads.

Here are corn planters to plant by customary methods with accuracy you can depend on. And because of their flexibility and accuracy, these IH planters will equip you to control stalk population, and plant to the fertility level of your fields. That's to get the best possible yield per acre—at a low production cost.

A checkshaft coupling between the two 2-row units of the IH No. 440 planter provides flexibility for uniform planting depth in all 4 rows. And it keeps all 4 boots operating in unison for accurate crosscheck. Both of the 2- and 4-row planters are available in 3 popular types: (1) To check, hill-drop and drill; (2) to hill-drop and drill; (3) to drill.

Visit your IH dealer and see the 2-row No. 240 or the 4-row 440 planter. And if you have a Farmall C, inquire about the new forward mounted 2-row planter. The outfit you need is ready to help boost your 1949 corn yield!



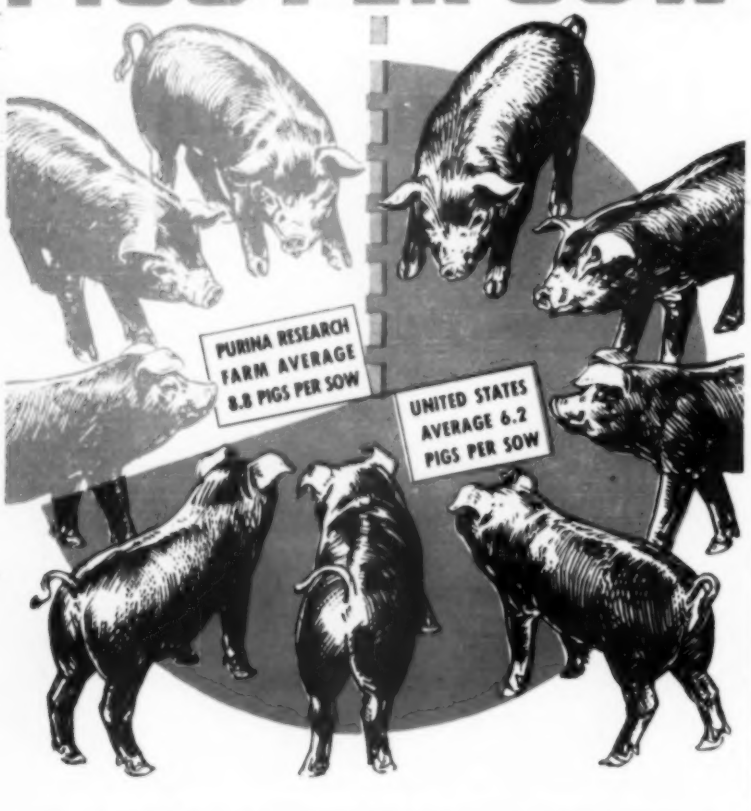
INTERNATIONAL HARVESTER

This modern building symbolizes the expanded service facilities of IH dealers throughout America.

180 NORTH MICHIGAN AVENUE • CHICAGO 1, ILLINOIS

LISTEN TO JAMES MELTON ON "HARVEST OF STARS" EVERY WEDNESDAY EVENING ON CBS.

UP TO 1/3 MORE PIGS PER SOW



MANY PURINA FEEDERS WEANING ALMOST 9 PIGS INSTEAD OF 6

Why be satisfied with weaning only 6 pigs per sow when you *may* be able to save 8 to 9 by changing to the Purina feeding and management plan?

Feed Purina Sow & Pig Chow with your grain—from now until weaning. It gets sows in shape to farrow big, strong litters. And it keeps their udders full of rich milk . . . plenty even for big litters.

Your neighbors have found that Sow & Pig Chow *does make big litters.* That's why it's the Grainbelt's most *popular supplement* for sows and pigs. Get some from your Purina Dealer. *Feed it and see* what a job it does.

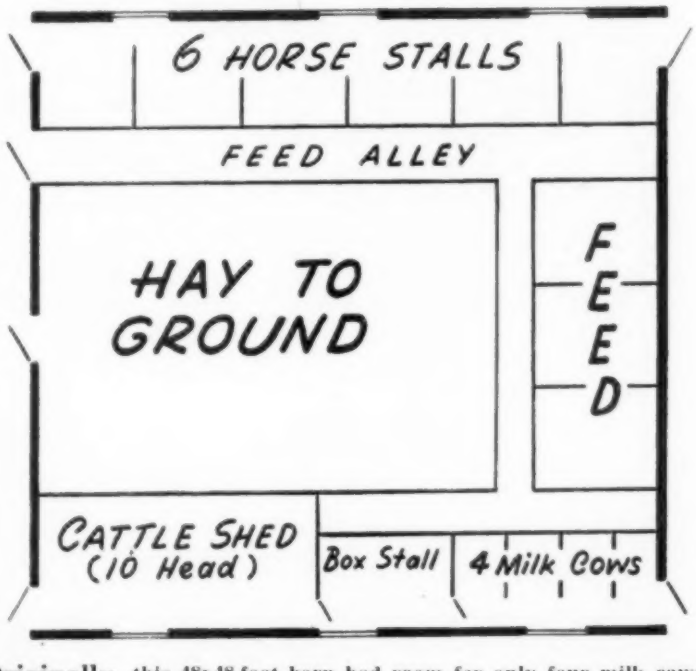
RALSTON PURINA COMPANY
Headquarters, St. Louis 2, Mo.

Feed PURINA SOW & PIG CHOW for Big Litters of Heavy Pigs

SEE THE DIFFERENCE PURINA MAKES

Spends $10

For Useful Barn



Originally this 48x48-foot barn had room for only four milk cows, 12 head of horses and about 10 head of stock cattle, plus a few calves. George E. Ross, Audubon county, Iowa, spent $10 for new material and did some remodeling. New arrangement shown below.

"I CAN safely say that the work of rearranging has doubled the value of my barn to me," says George E. Ross, Audubon county, Iowa.

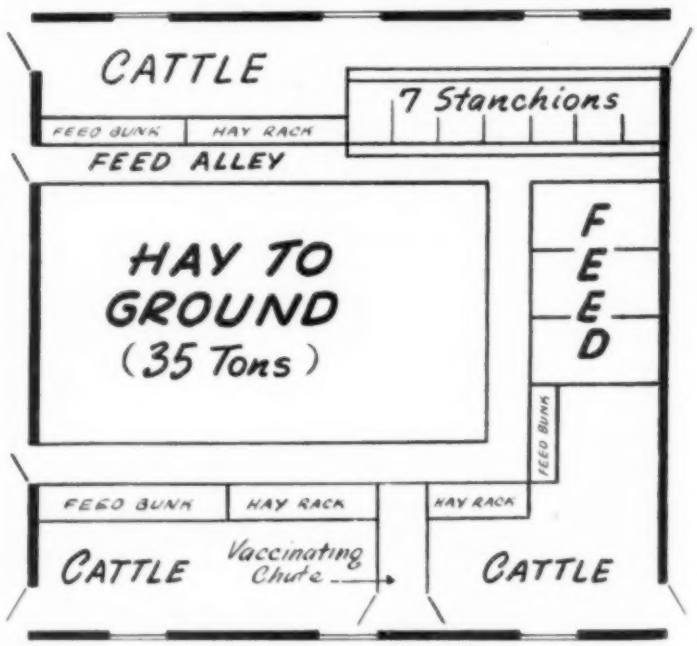
"It took quite a lot of work, but the cash cost did not amount to much."

Like many another of the red barns scattered over Iowa, Ross' barn was out of date. The new barn makes it possible for him to look after his breeding herd of Herefords, as well as young stock and dairy cows, all under one roof.

That's not only handy, but, as Ross points out, he keeps a lot more of the fertility in the manure when it is under a roof.

"You might just as well get some use out of these old barns as to let them stand there full of empty horse stalls," Ross says.

The diagrams herewith show the before-and-after arrangement of his barn.



Now the barn has stanchions for seven milk cows, no horses, and room for 40 stocker or feeder cattle. Since Ross maintains a Hereford cow herd, this set-up is more useful, makes choring lots easier.

BURDEN'S *Smart idea!*

200 portholes "in the ocean floor" at Marine Studios attract 30,000 monthly!

GIANT SHARKS, tarpon, porpoises, rays and tropical fish live together in two huge tanks at "the world's only oceanarium" at Marineland, Florida. Spectators view this colorful undersea world through more than 200 observation portholes placed in the sides and bottom of the 700,000-gallon capacity tanks. Because violent deaths are a frequent occurrence in the sea world, a special fleet of boats searches for new specimens continually. Douglas Burden, president of Marine Studios, says that a fleet of trucks—two of which are Fords—is required to service boats, tanks, and concessions. The oceanarium, started in 1938, was built at a cost of approximately $1,000,000.

"BIG FEATURE OF THE OCEANARIUM," says Douglas Burden, "is the fact that it gives you the opportunity to see the dramatic and mysterious life of the undersea world approximately as it exists in the open sea. Marine life is not segregated by species, but placed together in the giant tanks."

DIVER FEEDS A PORPOISE by hand. These air-breathing and warm-blooded mammals, reputed to be the only captive porpoises in the world, are transported to Marine Studios by Ford Trucks from various points on the Florida coast.

"WE TRUCK OUR SEA WORLD SPECIMENS from as far away as Key West," Douglas Burden tells Ford Dealer, Pitt Barnes. "Our new 145-horsepower Ford F-8 Big Job is just the ticket for long runs like that." Replies Dealer Barnes, "I see what you mean. Ford Trucks specialize on long runs of all kinds. They're Bonus Built to last longer, too. That goes for over 139 Ford Truck models from the 145-horsepower Big Job down to the smallest Pickup."

BURDEN'S *Smart move!*

He uses Ford Bonus Built Trucks in his business. Smart Move! Smart Business!

"THE 110 GALLONS per minute, handled by the Ford cooling system, sounds small alongside 8,000,000 gallons required daily for your tanks," says Barnes, "but it's one of the reasons why this 145-h.p. engine is tops in performance."

"WE'RE THOROUGHLY SOLD on this extra heavy-duty 2-speed axle," says Burden. "It gives us the speed and power we want . . . when we want it. Gasoline mileage in the high axle range is amazingly good for this size truck."

BURDEN'S *Smart bet!*

FORD TRUCKS LAST LONGER!

Using latest registration data on 5,444,000 trucks, life insurance experts prove Ford Trucks last longer!

NEW IDEA

TRACTOR MOWERS

FIRST with farmers who put performance first—that's the completely modern, quality-built NEW IDEA Tractor Mower. And first time you use this advanced machine, you'll share the enthusiasm of its thousands of owners.

You can easily adjust and hitch the NEW IDEA Mower to *any* tractor in a matter of minutes. It tracks perfectly . . . takes sharp corners freely . . . operates smoothly, quietly and dependably. And most important, watch how much faster every mowing job goes—whether you're cutting hay, clipping hilly pastures or stubble—when it's a reliable NEW IDEA Mower following your tractor. Remember: it takes outstanding ability to earn nation-wide farmer preference. You get it in *any* NEW IDEA Farm Machine.

A flexible, self-contained mower that works with any modern tractor. Quick, easy hitch. Completely power operated. Turns square corners—cutter bar swings hay out of way. Non-clogging knives. Fully armored at all vital points.

An all-new rake, specially built to suit tractor speeds—doesn't batter hay. Flexible spiral reel, reversible for tedding. Patented double-curved teeth, quickly detachable. Readily adjusted to varying conditions. Unusually well protected against wear.

Add the host of extra-value features found only in these and other husky NEW IDEA machines . . . advantages your dealer will gladly explain in detail . . . and you'll hardly settle for less than NEW IDEA offers. Mail coupon for free folders.

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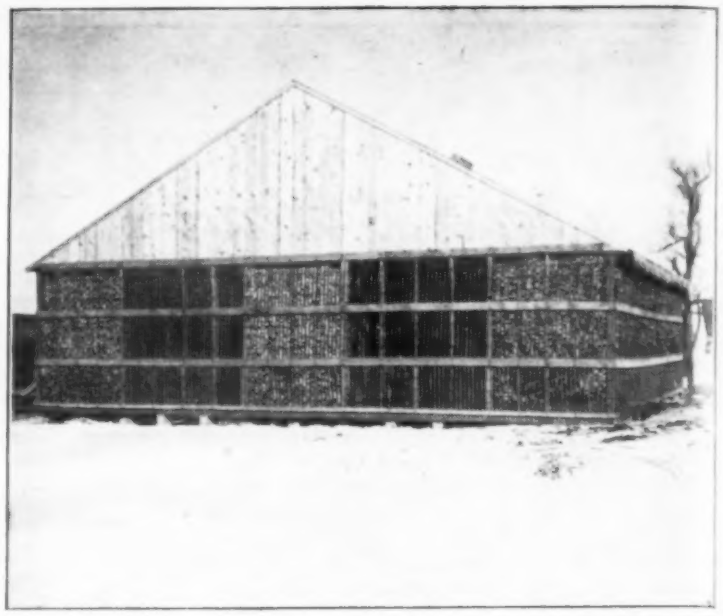

Normally you wouldn't expect a crib to pay for itself and show a profit in one year. Today, however, a crib like this, which meets sealing rules, may pay you a profit the first year you use it.

See Trouble In Farm Price Supports

High Pay Rolls Most Important, Says One National Farm Institute Speaker

IF YOU think that farm prices will fall sooner or later—just as they went down after World War I—there are a lot of people who agree with you.

If you fear that the government will have a hard time making farm price supports work when the time comes that they are needed, other people share your fears.

All this was revealed at one of the forum discussions at the National Farm Institute at Des Moines, February 18-19. The subject was the "Future of Farm Price Supports."

Most of the talking at the forum was done by agricultural college professors and the three farmers on the panel.

Charles M. Elkinton, former Iowan, and now economics head at Washington State College, expressed the general thought on price movements:

"I don't see anything to stop the same price falls that followed other wars. Farm prices will go below 90 per cent of parity."

"We'll go broke faster this time," said Walter F. Katterhenry, Wisconsin farmer and chairman of his state's PMA committee. Said he:

"Prices went higher this time, compared with other wars. That means the fall will be harder."

O. B. Jesness, leader of the panel and economics chief at the University of Minnesota, was so pessimistic as to say that price supports would be in effect all the time if high 90 per cent supports are tried.

Allan Kline, Iowa farmer and president of the American Farm Bureau Federation, said he would be agreeably surprised if even 60 to 90 per cent supports were in effect only one-fourth of the time in the depression that everyone thinks is coming.

There was little disagreement on probability of a farm price depression. But on methods of using price supports, argument began.

Katterhenry pointed to the fact that prices of things farmers buy do not come down as fast as farm prices come down. He said:

"Prices will not come down together unless farm prices are tied to industrial prices." He said he favored the 90 per cent of parity principle, but he hoped a 90 per cent policy would bring an average of 100 per cent of parity for the farmer.

Kline doubted that 90 per cent supports would work. He asked:

"What would happen with a billion bushels of corn in storage?" He followed by saying that acreage control and price supports will work pretty well on tobacco, but not so well on corn.

"Price supports at 90 per cent will bring us to regimentation sooner than 60 to 90 per cent supports," Kline went on. But he said that, even under the flexible supports, there might be acreage allotments and marketing quotas.

On the question of the control of production by acreage allotments, Elkinton recalled attempts in the thirties, and concluded:

"Farmers haven't demonstrated that they can control production."

Don Fish, Iowa farmer, broke into the discussion to ask where the livestock man came in on the price supports.

Elkinton reminded him that government supports on hogs in 1943 failed to work. Jesness suggested that farmers are sometimes buyers of farm products and might be irked by price supports.

Both Elkinton and Jesness suggested that price supports might interfere with our foreign commitments for freer trade.

Jesness closed the discussion by saying that price supports are only part of the picture. The hope for farmers, he said, is high employment and income that will keep prices up without government supports.

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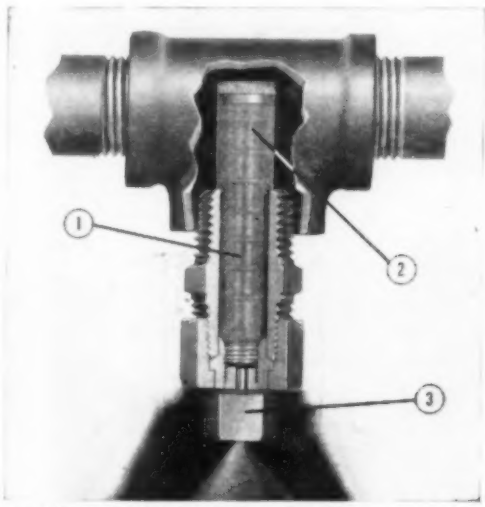
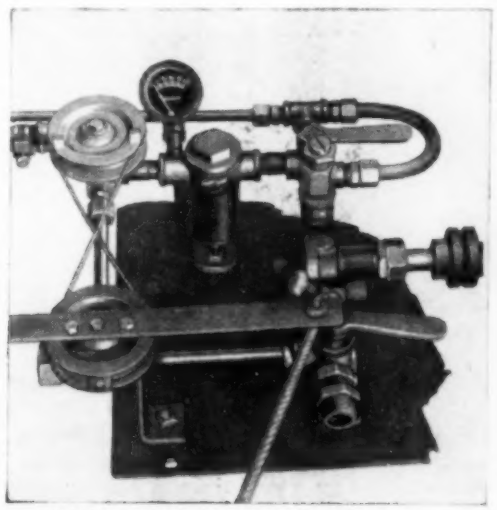


3 NEW ANTI-CLOG NOZZLE. This revolutionary nozzle has double sized screen (1), set deep in boom so it is constantly washed by flow of liquid (2). Made only for Fargo Sprayer. Nozzle is easily lined up with boom (3).



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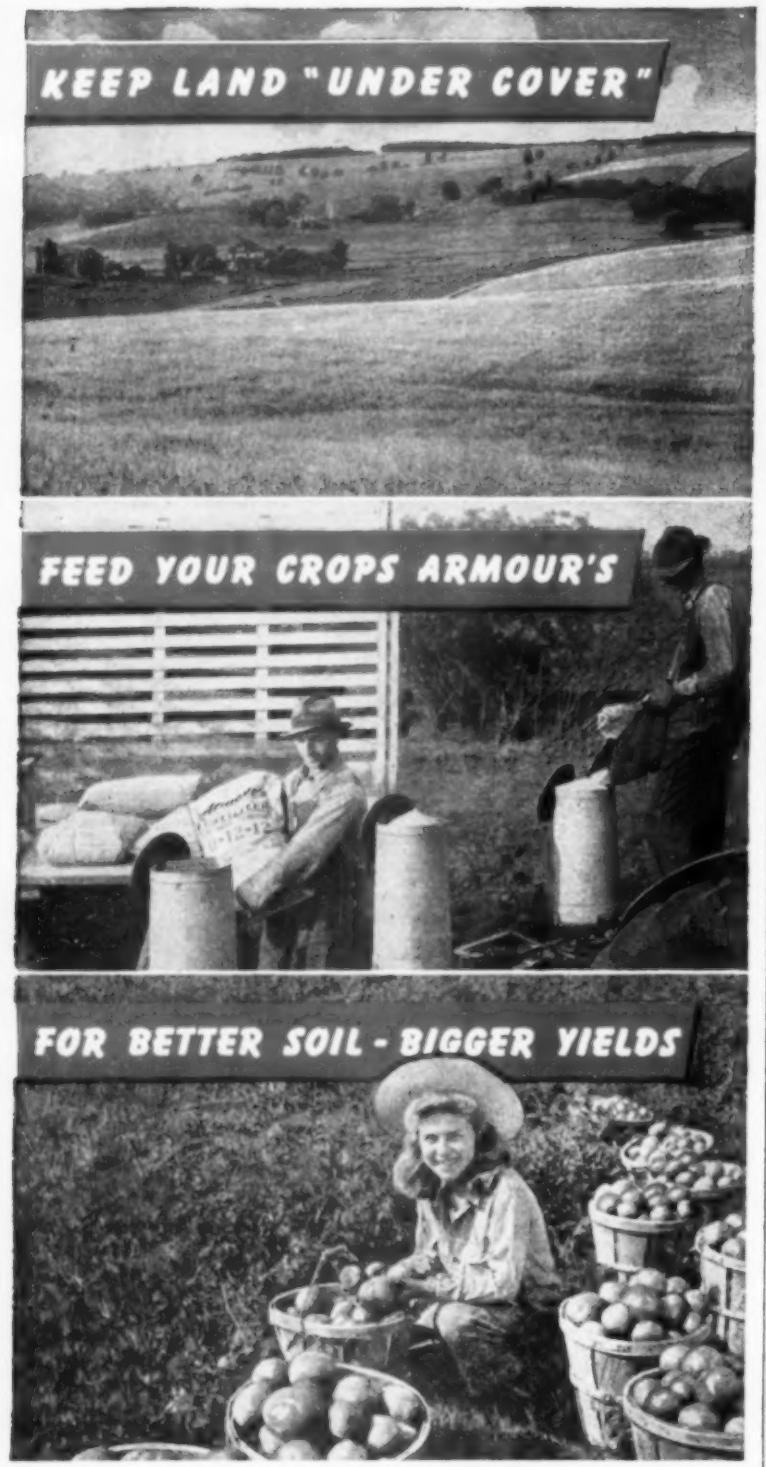

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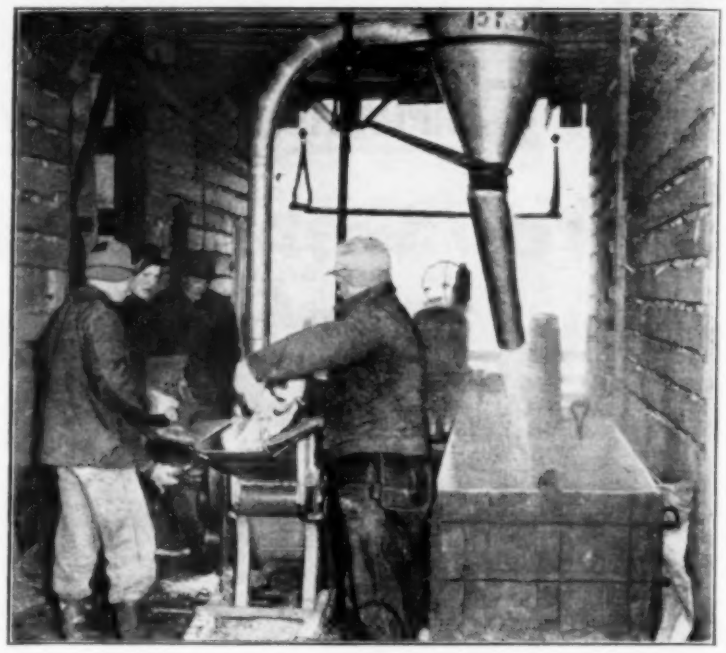

Grinding feed for a yard full of cattle isn't very much of a chore if you have four husky sons to help you. Clarence Young, Clarke county, Iowa, gets a hand from Darwin, Dean, Dwight, Wayne.

Get The Most From Your Pasture

Feeding Steers On Grass Gives Highest Returns In Three Years Of Experiments

WHAT is the best way to market your pasture thru beef steers? Pasture studies at Iowa State College's soil conservation farm in Page county have sought the answer.

Three years of experiments have shown the same thing: For best use of pasture:

1. Let steers graze pasture alone in May and June.
2. Starting with the end of June, self-feed corn-and-cob meal.
3. Let steers continue to graze the remaining pasture.

Cattle feeders refer to this method as "fed on grass." Three other methods have been studied on the Page county farm. In two of them, the steers had nothing but pasture. But the pasture was grazed in different ways.

In one study, called "continuous grazing," steers grazed the whole pasture all the time. In another test, an equal amount of pasture was fenced into three smaller fields, all of the same size. Cattle were rotated thru the smaller pastures periodically. This is called "rotation grazing."

The fourth method studied was dry-lot feeding.

Grass does not produce as much pasture in summer as late spring. So extra acres of pasture had to be provided for the rotation and continuous grazing lots.

Fed-on-grass steers needed only half as much pasture because grain feeding was started when pasture growth began to slow down.

Discussing trials conducted in 1948, C. W. McDonald, animal husbandry specialist, says that during the first 54 days all cattle in the three grazing lots made about the same total gain. But rotation and continuous grazing steers had access to twice as many acres. So their gains cost twice as much.

In beef produced per acre of pasture, the fed-on-grass cattle showed up well, too. They produced more beef per acre of pasture in the first 54 days than did the rotation grazed cattle in 138 days. Last year, they came within three pounds as much per acre as the continuous grazed lots.

The reason for this, again, is that too much pasture went unused by the latter lots in the early part of the pasture season. A second point to consider is that the fed-on-grass steers did not stop making gains on pasture after the first 54 days. They continued to put on beef from grass during the rest of the pasture season.

The studies show the continuous grazed lots also gained more total pounds during the same 54 days than they did in the next 84 days. They made over half of their total gains during that time. The rotation grazed lots put on 48 per cent of their gains during the first 54 days. All cattle gained better during the cooler days and on the succulent pasture early in the season.

There were additional advantages to the fed-on-grass method. Cattle were marketed in November, and during that month, as is usually the case, prices were higher than they were in December or January. And it is during these months that grazed cattle must be sold if they are to be finished to the same degree.

It should be noted that the pasture suffered from unusually dry conditions and grasshopper damage the past three years. In all cases, 60 per cent of 1948 pasture growth was obtained by July 8.

Appraisals made on September 29, compared with prices steers brought when ready for market, indicate that it would have been more profitable to have marketed the pastured cattle at the same time the dry-lot cattle were sold.

"GOT RID OF WEEDS WITH WEED-NO-MORE--GOT MY HARVEST IN EASY & BIG!"

So says Harvey Parker of Monclova, Ohio

Untreated corn near Ridgeway, Ill. *Same corn treated with Weed-No-More*

NO WONDER WEED-NO-MORE WAS USED ON MILLIONS OF ACRES OF CORN, SMALL GRAIN AND PASTURE!

N. M. Stanley of Reed, Ky

"Saved a Cultivation"

Weed-No-More is more than a crop saver . . . it is also a labor-saver. Weed-No-More keeps weeds under control in corn and most small grains at a lower cost than most all other methods. Low-gallonage spraying with Weed-No-More means you haul less water, do less work.

W. A. Wiandt of Dover, Ohio

"Saved 300 Acres of Corn"

Reports now in indicate this was a typical experience of farmers who tried Weed-No-More last year. Crops which were nearly given up for lost were remarkably saved. Heavy weed growth withered and died after one application of Weed-No-More in many sections of the country.

WEED-NO-MORE great for many crops!

SMALL GRAINS—Weeds rob growing grain of water, fertility, sunlight. Control them safely, easily, inexpensively with Agricultural Weed-No-More . . . You'll get more bushels per acre of grain that grades higher!

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PASTURES—Spraying is quicker than clipping. And Agricultural Weed-No-More kills weeds, roots and all—without harming livestock, grasses or resistant legumes. Weed-No-More gives your pastures greater grazing capacity.

GRASS SEED CROPS—Keep your grass seed free of weed seed. Use Agricultural Weed-No-More to kill weeds that would contaminate your grass seed crops.

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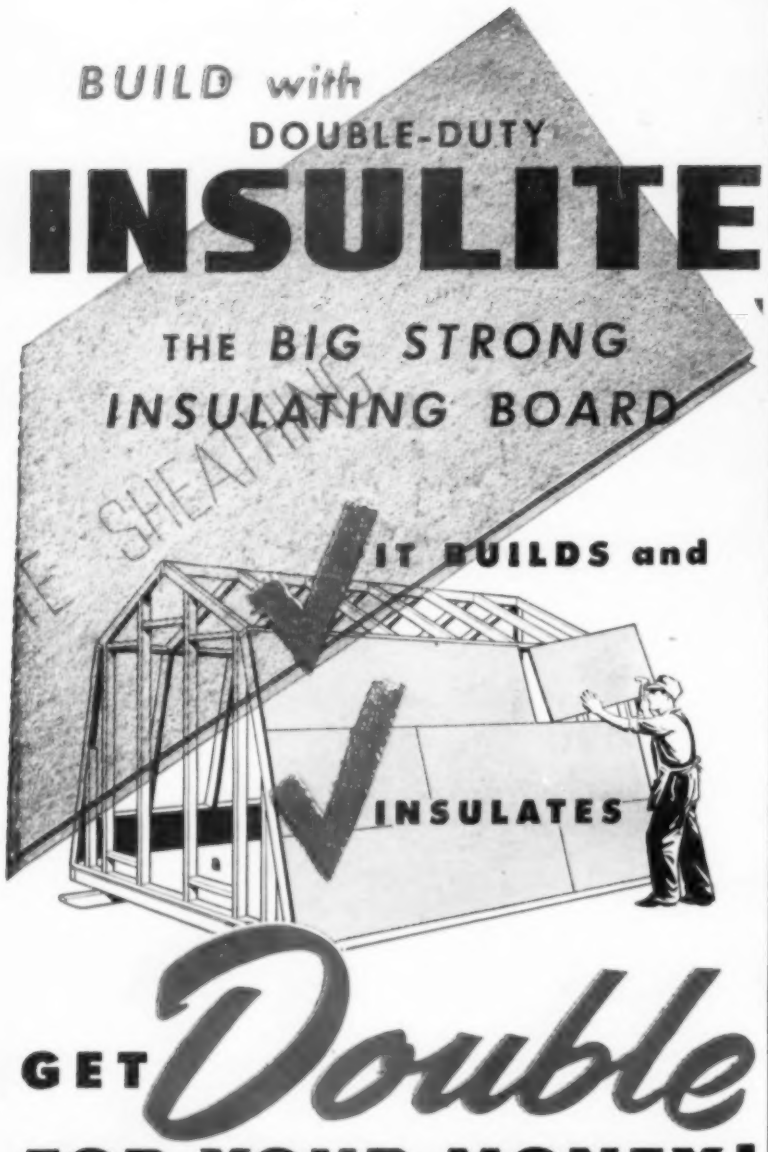

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And that goes for remodeling your home, too. If you want an extra room in your attic, Insulite is perfect for the job. Makes a good sound wall PLUS *insulating* protection. Write us for plans and details.

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(Photo by Harris and Ewing)

Secretary Brannan asks the senate agriculture committee for new CCC legislation because "inadequate storage . . . prevents farmers from obtaining the benefits of price support programs."

Washington Wire

If County Committee Ran Everything...

Hoover Report Wants To Put All Federal Farm Activities Under One County Head

WASHINGTON, D. C.— How'd you like to have one office in each county to handle extension work, Soil Conservation Service, AAA and Farmers Home Administration? And with one farmer-elected committee in charge for the whole thing?

This is what the Hoover committee on government reorganization recommends. But that does not mean congress will accept it.

Farmers, at first glance, will like the idea of one farmer-elected committee to run everything. But the second glance shows that the Hoover idea is to have the committee "advisory" only.

Actual running of the programs would be done by USDA employes.

Not only congress, but state legislatures, would have to approve such a change. In most states, there are state laws covering county extension work and soil conservation districts.

In Iowa, for instance, the legislature would have to amend the county extension law and the soil conservation district law in order to put both under the same county committee.

Congress could force state action, of course, by saying that no federal aid would go to a state or county unless the state laws are changed. But this isn't likely.

Is there a business recession ahead for the United States? That's what folks here keep asking.

Unemployment is up to three million. Farm prices are lower. Some manufactured goods are piling up in warehouses.

Administration economists don't seem too worried. They point out that national income is still high, and that government spending for defense and help abroad will take up any slack that might develop.

Congress was more alarmed. Congressmen from farm states quizzed Secretary Brannan on prospects.

Brannan quoted economists as saying farm net income in 1949 should not drop more than 10 per cent below 1948.

He did, however, seize the opportunity to ask for legislation to give the Department of Agriculture greater control over the futures market. And he pushed for the administration bill which gives the CCC power to buy and build cribs and bins.

Some farm belt congressmen were inclined to blame the government for the price decline—especially the Economic Cooperation Administration for allowing U. S. foreign relief funds to be used to buy Canadian wheat and other foreign products.

Are there any elements in the economic situation justifying a weakness in farm prices?

Answers to this question have been supplied by Secretary Brannan himself in his annual report to the president and by the department in economic reports on various commodities.

In his report, the secretary said improving world food production

Brannan Says:

"The big question before us is not whether agriculture can and will continue to produce an abundance, but whether farmers will be penalized for producing in accordance with the needs and policy of the nation. . . .

"I, for one, do not believe that the American economy is going to be contracted and squeezed out. But of this I am sure:

"We must see to it that the farm family is not again the first victim of a squeeze."

is "pointing up the problem of finding markets for some crops." He said "serious" problems lie ahead in finding outlets for wheat, corn, cotton, and some fruits.

Brannan went on to say that agriculture must have big foreign markets. High employment in the United States, with its big demand for food, is not enough, he said, to keep agriculture prosperous.

Defenders of the futures markets said this prospect of smaller foreign markets, which the secretary himself forecast, was one of the causes of the price declines in grains.

In the case of declining prices of livestock and meats, the department said there is evidence that consumers are cutting down on their eating and using more money to buy automobiles, television sets, furniture and the like.

Should the United States permit the importation of cattle from areas infested with the dread foot-and-mouth disease, even if such cattle are screened by a quarantine station?

That question has been put before the agriculture department and congress by a livestock industry advisory committee on foot-and-mouth disease.

The department is arranging to open such a quarantine station at Swan Island, near Cuba. Congress authorized such a station in a law passed in 1946.

The advisory committee has asked that the station not be opened. It may take action by congress to prevent its being opened.

The committee told department officials this country should not run the risk of getting the disease started here. It pointed out that the disease got started in Mexico by means of cattle which passed thru a quarantine island off the coast of that country.

There are apparently a number of plans of private breeders to bring in breeding stock for experimental work. But the committee believes the risk is too great.

Where is the dairy industry headed? That question has been raised a number of times during the past year, particularly as prices of milk declined in the face of high production costs.

Declines in milk production last year were particularly sharp in important dairy states—8 per cent for Iowa, 5 per cent for Minnesota, 4 per cent for Illinois and California and 3 per cent for Michigan and Wisconsin.

Austin Roth greets Skelly Tank Man, Ben Moser, of Home Oil Company, Morton, Illinois.

"Skelly has never let me down!"

Austin Roth of Morton, Illinois, a Satisfied Skelly User for Over 25 Years

Mr. Roth and Ben discuss the fine points of Skelly Tagolene lubricants. The 160-acre Roth farm has hummed along on Skelly products for more than a quarter century. Mr. Roth gives Ben Moser, with his prompt deliveries, a large share of the credit for helping make his place the going concern it is.

"Fill 'er up!" says Roth, as Ben replenishes his fuel supply. "Come summer's sun or winter's snow, Skelly's always made the grade to my farm, and that means a lot," says Roth. Born and raised on his farm, he has never once switched from Skelly service.

Fueling up Roth's tractor is typical of the many "extra" services that win friends for Skelly Tank Men. "I can always rely on Skelly for really friendly service," says Roth. Ben knows that being helpful benefits him as much as his customers. He's always ready to give assistance on special lubrication problems, too.

Ben takes a look at some of the 100-bushel-per-acre corn the Roth farm produced last year. Other yields: oats, 70 bushels, and beans, 30 bushels per acre. Roth also has 20 head of cattle, and grew an 18-ton-per-acre pumpkin crop in 1948. He's proud of this record—and so is Ben!

Skelly Farm Service can help you, too. Contact your friendly Skelly Tank Station Salesman or Jobber today. His line is complete, includes Skelly Fortified Tagolene and Skelly Fortified Tagolene Heavy-Duty Motor Oils, greases, accessories, and fuels. *Money-back guaranteed!*

GUARANTEED AGRICULTURAL CHEMICALS

For positive Weed Control, use 2,4-D with FLUOL; it kills the entire weed—roots and all. And 2,4-D WITH FLUOL IS GUARANTEED NOT TO CLOG SPRAYER NOZZLES OR YOUR MONEY BACK!

Ask your Skelly Tank Station Salesman for complete information about 2,4-D with FLUOL, or write Skelly Oil Company, Box 436, Kansas City, Missouri.

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Tune in Alex Dreier with his first network news commentary of the day, Monday thru Friday, and to Lloyd Burlingham on Saturday, over NBC.

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GET YOUR crops in with a higher-speed John Deere-Van Brunt Drill when soil and moisture conditions are ideal for quick germination and rapid growth. This low-wheel drill plants with dependable accuracy at speeds up to 6 miles per hour. It can be transported 15 miles per hour or faster on the highway.

Automotive-type wheels and Timken tapered-roller bearings make possible this smoother, faster travel. Low-wheel design assures more uniform placement of seed because of the shorter seed drop. The welded-steel frame, shorter turning radius, and direct-reading land measurer are other advanced features.

The Model "FB" Fertilizer-Grain Drill, illustrated, distributes fertilizer in the row as it drills. Accurate-planting, adjustable-gate fluted force-feeds handle many different crops. A choice of furrow openers and other optional equipment adapts this drill to practically all planting conditions. See your John Deere dealer for further information.

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HELPFUL HINTS ON BETTER HOME HEATING

If your fuel bills are high—or your house is not comfortable in cold weather, these suggestions may help.

* * *

The average family *wastes* $15.00 to $65.00 each winter on fuel. This waste may be caused by improper care of your furnace. The way you fire your furnace or the adjustment of the heating unit, particularly if you use oil for fuel, determines the amount of fuel used.

The Green COLONIAL Furnace Company has a large staff of trained heating engineers to help home owners. One of these engineers is located near you. He will be glad to go over your heating problems—advise you on the care or adjustment of your present heating equipment — and recommend changes to make your farm home more comfortable, and reduce your fuel costs. There is no charge. Send post card for further information on this service.

* * *

Green COLONIAL heating units are manufactured in Iowa. The Company has been in business 80 years and makes heating equipment only. They know what midwest home owners want and need to get the most comfort, for the lowest fuel cost. Just send your name and address to the Green COLONIAL Furnace Company, Dept. U-304, Des Moines, Iowa, and you will receive FREE information on any of these units—coal, oil, or gas furnaces; oil burners, blowers, or stokers.

* * *

A good tip to keep in mind—when firing your furnace do not cover the entire fire bed with fresh fuel. Always leave a little fire in sight when firing. Remove ashes daily.

Keep a thick fuel-bed in cold weather. The thickness should be varied according to the weather. It is a good plan to keep the top of the fire as nearly level as possible with the bottom of the firing door, except in very mild weather.

* * *

When buying a furnace, get the names of at least 5 people who for at least 5 years have used the type you are planning to buy. Thousands of farm homes have been comfortably heated with Green COLONIAL furnaces for twenty, thirty, forty or more years.

* * *

Here are a few of the reasons why proper heating is an engineer's job. Correct location of furnace — good chimney connections — the proper sizing and locations of both warm and cold air registers — correct sizing of warm air runs — the design and capacity of wall stacks to second floor rooms, etc.

Careful attention to these details by your Green COLONIAL dealer and heating engineer, has made Green COLONIAL heating units the number one choice of farm families today.

* * *

A satisfied owner from Elgin, Iowa, recently wrote, "I consider my Green COLONIAL furnace is the best investment I have made. Never before have I enjoyed such a clean, economical and dependable heating system." Send for comments by other satisfied owners and find out about the famous Green COLONIAL All-Purpose furnace that may be easily converted from coal to burn oil or gas if you desire. Dept. K-304, Green Colonial Furnace Company, Des Moines, Iowa.

BUY SAVINGS BONDS—THEY WILL HELP YOU LATER—BUY ALL YOU CAN—NOW!

"Winter Chores" could be title of this typical Iowa picture. With grinder in foreground, it shows Albert Carlson and son, Gene, Madison county, Iowa, hauling bedding for fall pigs.

Tips For March

These suggestions for early spring come from the farm management section at Iowa State College.

▲ ▲ ▲

TAKE TIME OUT to think. Be sure your plans are the best you can make. Strive for a big crop and livestock return. If more of us used a little less back-work and a little more head-work, we would be farther ahead.

▲ ▲ ▲

START SPRING clean-up when fields are not fit to work. You'll have more time for such chores now than for several months.

▲ ▲ ▲

OPEN TILE and drainage ditch outlets that may have become plugged. Harry Dreesen, of Tama county, Iowa, made a long auger which works well in opening tile outlets.

▲ ▲ ▲

BE READY to go to the field as soon as weather permits. Dave Hunter, Hamilton county, Iowa, likes to get his oats in just as soon as the ground is fit to work.

▲ ▲ ▲

SAVE THOSE little pigs. Have clean pens ready before farrowing time. Francis Winslow, Grundy county, Iowa, believes a little extra care at farrowing time pays off. Install an electric brooder a day or so before the sow farrows. Leave it in 10 days or two weeks.

▲ ▲ ▲

SEED RYE for early spring hog pasture. Wiltse McWilliams, of Greene county, Iowa, finds rye makes good early hog pasture.

▲ ▲ ▲

DOCK AND CASTRATE early lambs. Wayne Lacock, Calhoun county, Iowa, believes it pays to get this job done early. Start creep feeding lambs to push them along for an early market.

▲ ▲ ▲

PUSH EARLY PIGS for the late summer market. Many members of the Iowa Farm Business Association believe there will be good money in shoving early pigs along. Records show that in other years of rising hog production, fall hog prices went down earlier and more sharply than usual.

▲ ▲ ▲

LAY CONTOUR lines now to get ahead of spring work. A Mahaska county, Iowa, farmer lays his contour lines in early March. He marks them by spreading manure along the contour. The strips of manure will be easy to follow when it comes time to plow.

▲ ▲ ▲

ALFALFA HAY makes top-notch feed for pregnant or nursing sows. Richard Stephens, Washington county, Iowa, feeds his sows a ration of equal parts of ground alfalfa, oats and corn.

▲ ▲ ▲

GO SLOW on putting cattle on grass. Early grazing means less total feed from your pasture over the season.

▲ ▲ ▲

GET READY for putting hogs on clean ground. Many Farm Business Association members try to haul fencing, hog feeders and other equipment to clean ground before field work gets pressing.

▲ ▲ ▲

CHECK SEEDING and planting equipment. Corn planters, corn plows and mowers can be checked over, too. Get plow shovels sharpened. Blacksmiths have more time now.

▲ ▲ ▲

PRUNE TREES, grapes and berries. Take water sprouts, broken and dead branches out of trees. With grapes, select new canes for fruit. Head back and remove old canes as much as possible.

▲ ▲ ▲

CHILDREN LEARN to take care of their own things when there is a place for toys and clothes. A Missouri mother mounted a small box on wheels for playthings.

▲ ▲ ▲

PLAN HOMEWORK to save energy. Carry similar processes to completion rather than make many adjustments. In baking, assemble utensils and ingredients before mixing. In sewing, cut out several garments, roll up and pin, then sew as another operation.

Add Phosphate To Manure

EVER thought of fertilizing manure? Sounds strange, doesn't it? But it's being done. Farmers are putting superphosphate in the gutters, and in the manure spreader, and reporting excellent results.

Professors C. J. Chapman and Forrest Turner, of the University of Wisconsin soils department, recommend the action, too. They say you should sprinkle the superphosphate in the gutters at the rate of one pound per cow per day, or 25 to 30 pounds on each load of manure.

These experts point out that superphosphate will absorb a lot of liquid manure and also act as a deodorant.

Furthermore, the gypsum or calcium impurity in the superphosphate will trap, fix and hold any free ammonia which might otherwise be lost by evaporation.

There are a few precautions to observe. When you use it in open-run barns or cattle sheds, it's best to bed down immediately after spreading. This prevents any possible irritation to the cows' feet.

Do not put superphosphate on the cement driveway of your barn. For, without bedding for protection, your animals' feet might become sore. It's best to use pulverized limestone on such driveways.

Actually, superphosphate will increase the phosphorus content of manure—therein lies its value.

Manure contains little phosphorus. An average ton breaks down something like this: Nitrogen, 10 pounds; phosphate, 5 pounds; potash, 10 pounds.

By adding 25 pounds of 20 per cent superphosphate to each ton of manure, you can raise the phosphate content to 10 pounds per ton.

The top dressing of new seedings or old, established hay fields or pastures will benefit greatly from this treated manure. Many farmers report that one load of this "super-manure" is better than two loads of the untreated.

Ray Lange, of Clayton county, Iowa, likes to add a small calf pailful of 0-48-0 to each load of manure that goes on a new seeding. He says you can really tell the difference made by the extra phosphate.

Can Ewes Pasture On Alfalfa?

To the Editor: I sowed 20 acres of alfalfa last year. I have 80 ewes. Would it be safe for me to run the ewes on the alfalfa this year?—H. B., O'Brien County, Iowa.

Most feeding authorities agree that alfalfa is good pasture for livestock. But you will have to look out for bloat.

Feeding expert F. B. Morrison, in "Feeds and Feeding," recommends that before turning sheep on alfalfa for the first time, let them fill up on hay or on grass pasture. Give them grain, too, if they are used to it.

Then, in the middle of the forenoon, turn them on the alfalfa. Watch the stock closely for the first few days. Take out any animals that show symptoms of bloat. Individuals show great difference in susceptibility to bloat.

BRED FOR EXTRA STRONG GERMINATION

Pioneer seed corn is bred for strong germination. Pioneer corn breeders select for seed vigor. They breed for germinating strength in both inbreds and hybrids. They want to give you hardy seed that produces good stands. When you plant Pioneer, you can be sure it was BRED TO GROW . . . even in cold wet soil.

HANDLED TO AVOID SEED GERM INJURY

Pioneer seedsmen handle seed corn with "kid gloves." They don't bang it around carelessly. Rough handling hurts the seed germ, lowers germination. They take great pains not to injure the corn. They use tested seedhouse methods — found through years of research. Pioneer seed corn is HANDLED TO GROW . . . even in cold wet soil.

TREATED TO RESIST ROT IN COLD WET SOIL

Pioneer seed corn is chemically treated with special materials . . . found through years of research. This protects it against fungus rot in cold wet soil. Pioneer chemical seed treatment resists the soil fungus and protects the seed until the soil warms up. Pioneer is TREATED TO GROW . . . even in cold wet soil.

FREE SEED IF YOU REPLANT

Pioneer seed corn is backed by a written Replanting Agreement. You get free seed if you replant a Pioneer field to corn . . . for any reason. Simply notify your Pioneer salesman. He'll serve you quickly.

SEED IS BIGGER THIS YEAR You May Need More

A bushel of seed corn will plant fewer acres this spring. Kernels are larger. See the local Pioneer salesman. He still has a good choice of maturities and kernel sizes.

For this spring, MORE PIONEER seed corn has already been ordered by MORE FARMERS than was ever planted in any previous year

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From Inoculated Legumes

● Protein-rich hay and pastures pay off in higher meat and milk yields . . . save you money on purchased feeds. Laboratory tests on clovers, alfalfa and other legumes inoculated with NITRAGIN show high protein content. Depend on NITRAGIN inoculation to boost your legume yields . . . to increase their protein values. Protect your investment in legumes by always inoculating with NITRAGIN. Ask your dealer for "the inoculant in the yellow can."

Mixing NITRAGIN with legume seed is as easy as stirring up a batch of feed. Just moisten inoculant . . . spread over seed and stir.

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They tell how to grow better legume yields. Write for yours today.

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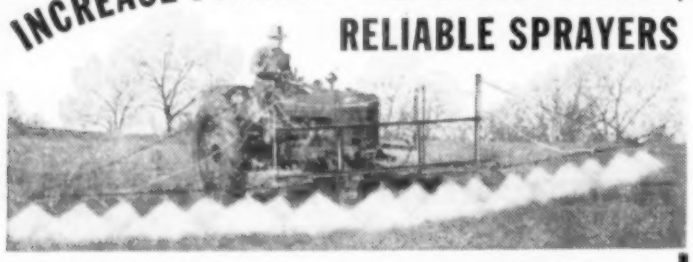

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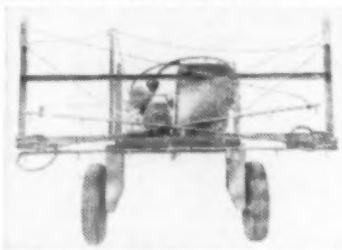
Engine Model with 2-wheel Trailer
60 gallon tank, 2.3 HP engine . . can be used on trailer or as skid for many spraying jobs around the farm. Illustration shows sprayer with boom mounted and folded.



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Mudholes Are "Fly In School Ointment"

Farm Woman Says It's Silly To Talk About Redistricting Where Busses Can't Operate

In our February 5 issue, Mrs. R. E. Newcomer, Appanoose county, Iowa, gave vent to farmers' feelings about mud roads. Now Mrs. Newcomer, who is a member of her county board of education, explains how mudholes are holding up school reorganization.

"IT IS hereby declared to be the policy of the state," says the Code of Iowa, "to encourage by the granting of state aid the reorganization of school districts into such units as are necessary, economical and efficient, and which will insure an equal opportunity to all the children of the state."

Wonderful! But what good is "equal opportunity" if children can't get to the door upon which it is knocking?

Even if we were getting all the equalization aid we need (and so far we aren't), what good would it do?

Better schools will be just a fine dream until the legislature and the highway commission join hands with mud-road farmers to get country children to those schools.

I admit that the thinking of many farmers on school reorganization is far behind the times. There is a lot of work to be done in getting our people to adopt more advanced ideas on education.

But it doesn't make good sense to ask farmers to vote for larger school attendance units when they can't even get to the schools they have now.

And we can't go along with the thinking of some swivel-chair planners that we should push ahead on reorganization and hope that, by some miracle, the good roads will be there when the busses need them.

Here is what happens in a bad roads county: Roads around the county-seat are most improved. And the county-seat schools are likely to be the best in the county. So farmers here and there over the county decide that this is the school for Johnny or Susie.

Naturally, the superintendent of the county-seat school insists he has "no desire to encroach upon other districts." It's just that farmers are "so insistent" (encouraged, perhaps, by letters from the superintendent urging attendance at his school).

Anyway, the county-seat spreads its bus routes, like an octopus, along the good roads radiating from the "big town." What becomes of the side-road boys and girls?

Here in our county, the pattern for school reorganization is being formed—and fast—simply on what roads are passable. This certainly will not end in equality of education for Appanoose county children.

Yet there is no alternative—except good roads. Let's take a simple example:

In southeast Appanoose county, the town school at Moulton (148 pupils in high school, 240 in the grades) draws from an eight-mile radius. Rural pupils are transported in three busses and a few private vehicles.

But, because of bad roads, two of the busses go out and back on the same route. This retracing means they cover half their daily mileage with a light load. Out of 115 miles daily, the drivers ride 58 miles without a passenger.

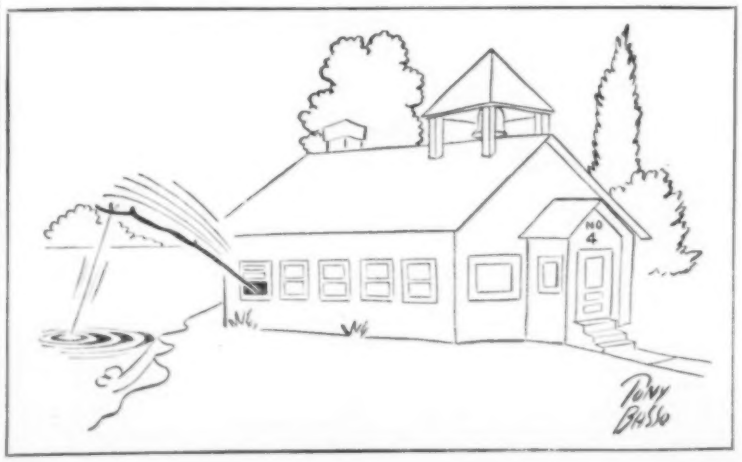
So tax-payers' money to the tune of $15 to $20 a day—about $2,070 a year—is thrown to the birds. Not because of poor management or delay in reorganization, but solely because of poor roads.

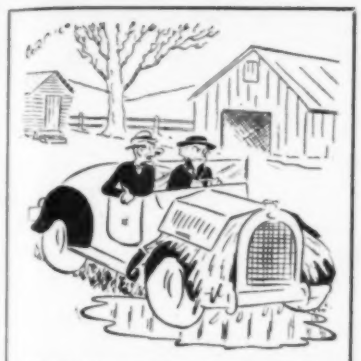
The third Moulton bus makes more sense. It carries about 50 Washington township pupils daily over a surfaced 2½-mile road, with no back-tracking.

Now look at school taxes. In Washington township, with the good road, the school tax is 20.166 mills. But Moulton's tax is 60.097. And Wells township, with Moulton transporting its children, pays 23.116. Obviously, Moulton is going to have to raise tuition.

Northwest of Moulton are many rural children who easily could be transported to town—if busses could get thru. And if we could close the bad road gap between the two Wells township bus routes, we would have an efficient loop and could pick up more children.

In other words, a larger attendance unit in this area makes sense. Then we could have a richer curriculum and a larger faculty and physical plant. But we are com-





"I wish you'd stop flooding the motor every time you start the car."

pletely stymied because there are no roads.

Seven other bus-route schools in Appanoose county have problems similar to Moulton's. In every case, mud roads are the fly in the reorganization ointment.

Here's something else: The present scramble for tuition pupils among schools having access to the few good roads has raised the cry that there is something permanent or sacred about approved bus routes.

But there isn't. There should be no such thing as "squatters' rights" on roads. Bus routes ought to be shifted as school population shifts. But we can never reorganize properly until a county has enough passable roads to give transportation some flexibility.

Some folks do a lot of unnecessary worrying about overlapping of bus routes. Suppose we had the roads to do a good reorganization job in Appanoose county. We'd probably have four or five combination high schools and grade school centers. Some of our smaller towns would have improved grade schools only, gradually absorbing one-room schools from nearby rural territory.

Under these conditions, we are bound to have some overlapping of bus routes as high school and secondary school pupils move to their respective school centers.

But what difference does it make? Overlapping is of little consequence as long as all busses carry full loads.

What about the length of bus routes? Here, again, it depends on the roads. If roads are good, mileage can be increased. But if roads are poor, the time element enters in. Tho the state department of public instruction doesn't seem to agree, there is a limit to how long bus routes should be.

We're beginning to think that school improvement is just a big game of checkers. And the next move—at least in southern Iowa—is up to the powers responsible for putting better roads on the map.

Thinks Big Schools Too Expensive

To the Editor: I am against school bus rides of more than 10 miles one way. If you go 20 or 30 miles, it takes new schools and higher salaried teachers.

We have to go careful with our taxes. When I bought my farm in 1940, taxes were $140 on 220 acres. The 1948 taxes were over $280.—J. A., Chickasaw County, Iowa.

Can we get better schools without paying more?—Editor.

GENUINE PFISTER HYBRIDS ESTABLISH NEW WORLD RECORD YIELD

Genuine Pfister Hybrids again proved their winning qualities by setting a new world record in corn production — 224.2 bushels per acre — in a ten-acre plot planted by Carroll Brown, Rose Hill, Iowa. The record was established in the 1948 Iowa Ten-Acre Yield Test sponsored by the Iowa Corn and Small Grain Growers Association.

The world record plot was planted exclusively to Genuine Pfister Hybrids No. 347 and No. 170, new hybrids developed by the Pfister Associated Growers' research department.

WIN
8 out of 10 times

IN 1101 YIELD CHECKS MADE LAST FALL

Extra yield from your land means extra profit . . . in the feedlot or at the elevator! And Genuine Pfister Hybrids again have proved their ability to out yield competitive hybrids in 1101 yield checks made last fall. These checks, made in farmers' fields under regular farming conditions, showed that Genuine Pfister Hybrids won 86.3% of the time to average 11.5 bushel more dry shelled corn per acre. With the 1948 figures in, Genuine Pfister Hybrid's average for 11 seasons shows they win 8 out of 10 times in 4853 checks across the cornbelt. With this record of performance, it's no wonder more and more farmers are planting Genuine Pfister Hybrids on their land. Have your P.A.G. dealer help you select the Genuine Pfister Hybrids that are winning 8 out of 10 times in your area. Get that "extra yield" from your land.

GENUINE PFISTER HYBRID SEED IS "GERM PROTECTED" . . . new pamphlet explaining how the P.A.G. liquid coating protects your seed when planted in cold, damp soil is available without charge. Write today!

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NOW THE EASIEST!

with NEW Jamesway Barn Cleaner

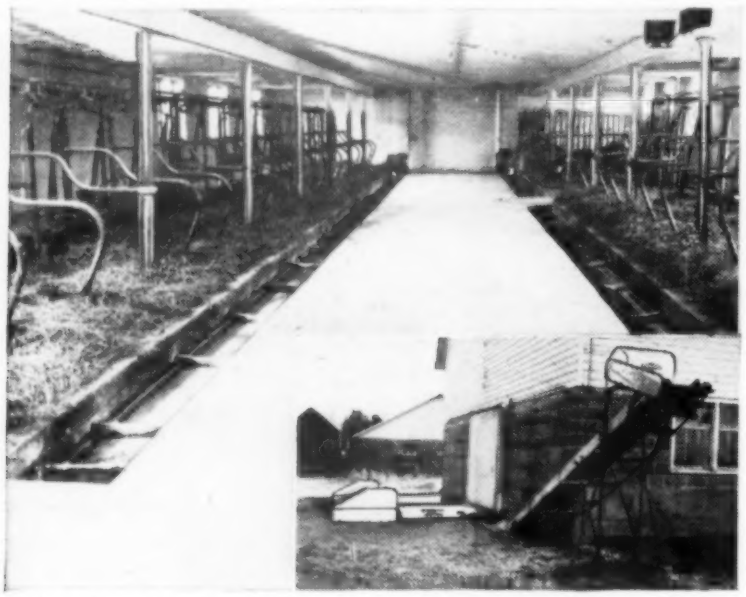
Patent Applied For

says Walter Koch
Oconomowoc, Wis., farmer

No longer does Walter Koch have to scoop out *half a ton* of manure a day from his 25 cows! He's turned that unpleasant, back-breaking chore over to a Jamesway barn cleaner. He just punches a button.

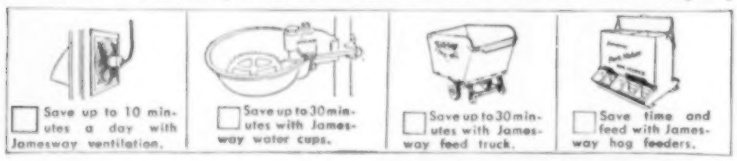
"It used to take an hour to clean the barn," Mr. Koch says. "Now I do it in 7 minutes. It's the easiest chore on the farm." He figures his barn cleaner and his Jamesway stalls, water cups, feed truck, and pens save at least 1½ hours a day.

Find out more about the amazing new Jamesway barn cleaner! It's the only cleaner in the world with pull-push action. No chains in the gutters. No cross gutters needed. See your dealer now. For free literature, write James Mfg. Co., Fort Atkinson, Wis., Dept. WF-349



In 7 minutes Mr. Koch's barn is spic and span! Note how hinged paddles are attached to shuttle bar. Loading unit is outside.

✓ Check this Jamesway Chart to See How Much Time You Can Save Every Day



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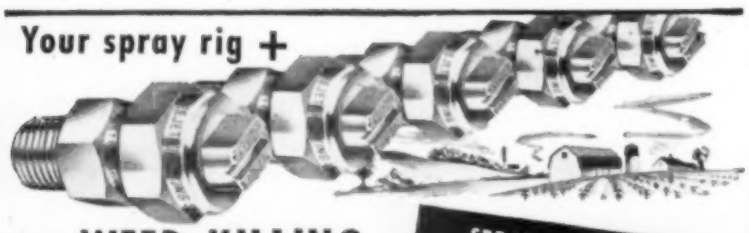

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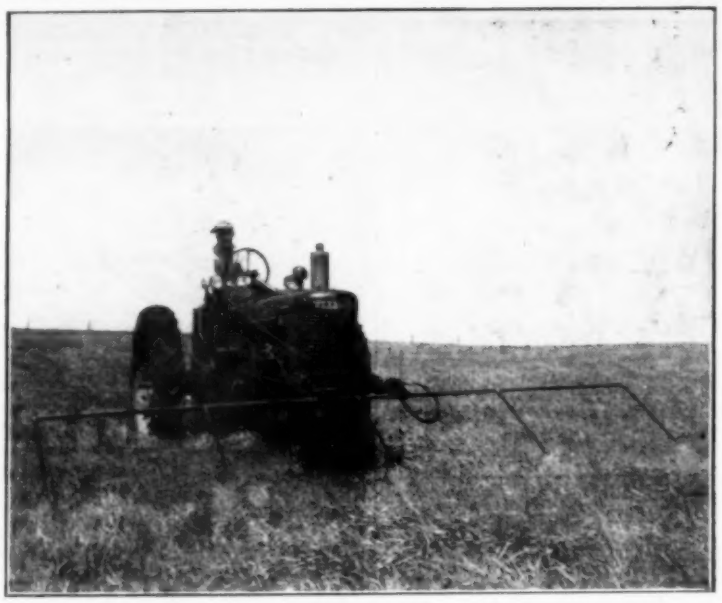


Roger Neville, of Sac county, Iowa, was helping his father, Charles. He was spraying 2,4-D on a second-year meadow when the camera man took this photograph last June.

Farmers Kill Weeds With Chemicals

Three Out Of Four Report Plans To Use Some Chemical Weed Killer This Season

An article in the February 19 issue of Wallaces' Farmer and Iowa Homestead reports on a survey of 650 farmers who were questioned about their plans for using agricultural chemicals for the control of insect pests.

This story presents the ideas of these farmers on weed killers.

IF THE 650 farmers who answered questions in the recent mail survey are typical, then more than three-fourths of Iowa's farmers will use 2,4-D or some other weed-killing chemical this season.

In reply to a question concerning their plans for fighting weeds this year, 504 out of the 650 farmers said they plan to use a chemical weed killer.

Many of them reported that they had used 2,4-D in 1948. They used it for almost every kind of common broad-leafed weed, for killing brush, and hedge or osage orange.

The 504 farmers who said they planned to use 2,4-D or some other chemical weed killer were also asked where they intended to use it.

These farmers gave fences and roadsides by far the largest number of votes, with corn fields, pastures, oats, wheat and flax fields listed in order.

The men who said they intended to use weed killers were also asked how many acres they intended to cover this season.

Almost every one of them intended to spray a little fence row or roadside, and the average figure given in their replies to the "how much" question was 3.1 miles.

Those who said they intended to spray corn will average about 44 acres each. Several of these farmers reported that they plan to use 2,4-D to whip weeds in more than 100 acres of corn.

Since 2,4-D can not be used on fields where legumes are seeded with small grain, the indicated acreage here was small. Replies indicated that an average of 24 acres of oats would be sprayed by those who do plan to use 2,4-D in oats.

Better than one-third of the men replied that they intend to spray their pastures — and their average was 18 acres each.

Farmers who intend to buy sprayers this year—and this survey indicated that about one-third of the men who do not now own a sprayer intend to buy one this year—were asked to state the kind of a machine they wanted.

Seventy-two per cent of the farmers intending to buy a sprayer said that they preferred one where the pressure was adjustable. They like a range of pressures available, so the machine can be used for a variety of jobs about the farm.

Sixty-eight per cent prefer a tractor-mounted outfit, while 21 per cent want a trailer type with power take-off.

Answers to the questions submitted in the survey indicate that not everyone understands fully how to use these new agricultural chemicals.

In addition to the man who reported he used chlordane to kill quack grass, four men said they used 2,4-D to kill flies and insects in the barn and outbuildings.

Maybe they merely checked the wrong space on the blank, and, faced with a can of DDT and one of 2,4-D, these people would know which to use. However, everyone should be careful with all agricultural chemicals.

Make sure you know which one you are using, and then use it according to directions.

OUTSIDE STUFF

IOWA Guernsey breeders have announced the top producing cows in five divisions for 1948. George H. Scanlon, Johnson county, has two winners; O. R. Bentley & Son, Story county, have two winners, and Truman Gingerich, Iowa county, has top HIR cow.

• • •

ON THE heels of the 1948 announcement comes word that a Guernsey in the Page county herd of Earl E. May has set a new Iowa senior four-year-old record. In 10 months, Ransom Ariel's Agnes produced 12,613 pounds of milk and 532 pounds of fat.

• • •

IN SOUTHWEST Iowa, W. A. McAlpin, Montgomery county, has a Holstein cow that has passed the 100,000-pound production figure. In 10 lactations, she has produced 106,950 pounds of milk and 3,858 pounds of fat.

• • •

I'M SURPRISED at the number of people who have written in to tell how they have made a useful building out of an empty, unhandy horse barn.

• • •

FEBRUARY snows slowed me up, but I did get out to see what Lyle Hawn had worked out on the R. W. Bennett farm, in Greene county, Iowa, and to the George Ross farm in Audubon county, Iowa. I hope to see the rest of you barn remodelers soon.

• • •

THE annual Master Farmer luncheon is over now. Seven new men, pictured on pages 8 and 9, have joined the ranks of the Iowa Master Farmer Club. It's not as much fun to help select Master Farmers as you might think. You always feel bad about the many good farmers who didn't win the award this year.

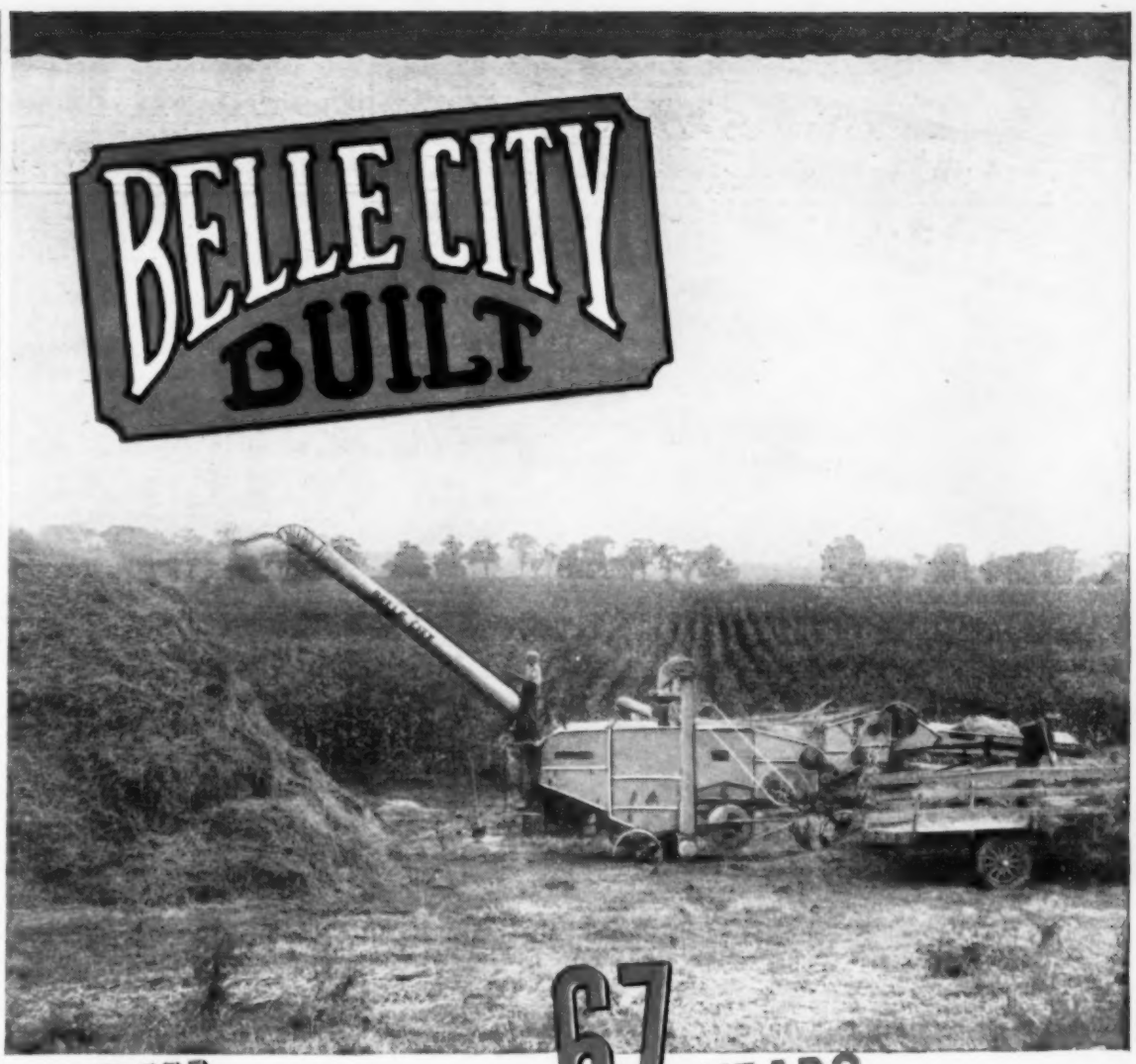
• • •

IN THE issue of February 5, I mentioned in this column that a portable steam sterilizer would be handy in cleaning up farrowing houses and brooder houses.

• • •

I'VE just heard from C. B. Rawson, Pocahontas county, Iowa. He has a portable oil-electric steam cleaning outfit that produces water of any temperature up to boiling, or "dry" steam. It also has a solution tank to add given amounts of lye or detergent. He'll be busy cleaning brooder and hog houses.—W. D. Inman.

"The experts say to raise hogs on clean ground."



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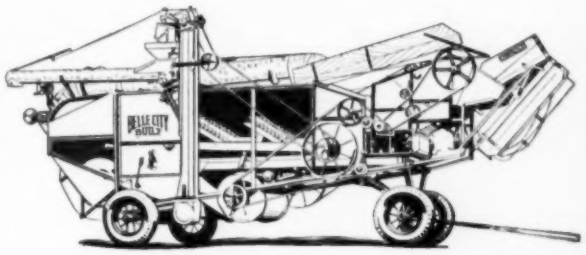

hot-riveted construction; full Timken Bearing equipped; Alemite Lubrication . . . a rugged, he-man thresher.

Built in YOUR Size: 22 x 40; 24 x 40; 28 x 48. Steel or rubber tires.

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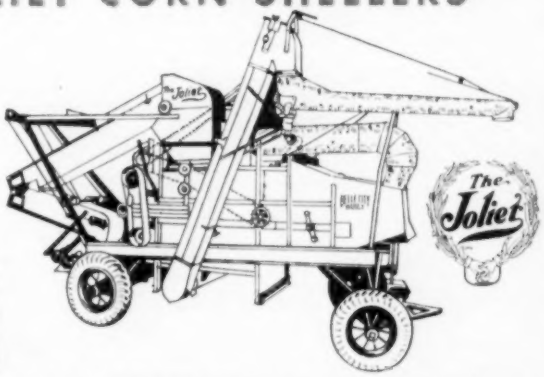

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1. SPREADS THINLY and EVENLY, without bunching or missing, even on wet or snowy ground.
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Your Galloway Dealer will be glad to demonstrate this real spreader for you. Best of all, it will actually pay for itself in increased crop yields.

NEW MODEL "31" TRAIL-'R-SPREAD

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- 50% GREATER LOAD CAPACITY, 95 to 125 bu.
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1. POWER-DRIVEN TWO-WHEEL SPREADER, the only new development in spreaders in 50 years.

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New Galloway Draw Bar Runner Attachment (extra) carries weight of drawbar smoothly, on less power. Prevents drawbar breakage.

Only The Galloway Harrow Offers All These Features

- Positively self-cleaning. Saves Time. • Knee Action. Follows contour of ground. • Cross harrowing unnecessary. • Sections fold up for easy storage. • Hinged, folding drawbar. • Six positions for teeth slant. • Positive lever-set lock. • Flexible or Rigid, as desired. • Wider sections give 10% more coverage.

With Folding Wood Drawbar in 2, 3 and 4 sections . . . with Steel Draw Bar in 2, 3, 4, 5 and 6 sections.

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Please send me full information on
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FREE—Write for complete list of certified seed producers.

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SERVICE BUREAU

The Sign of $50 REWARD WALLACES' FARMER SERVICE BUREAU *Protection*

What Sale Price For Iowa Farm Land?

To the Editor: Can you tell me what the land value in Iowa was in 1919, as compared with the Iowa land value in 1948?—Mrs. P. H., Pocahontas County, Iowa.

The average sale price of land in Iowa on March 1, 1919, was $192 per acre. On March 1, 1920, the average sale price was $255 per acre.

As of November 1, 1948, average sale price of Iowa land was $176 per acre. Figures are from USDA and Iowa survey data.

Can He Take Straw From Farm?

To the Editor: I am moving from the farm I share-rent. The lease says nothing in regard to taking straw off the farm. Can I take my share of baled straw with me?—H. M., Carroll County, Iowa.

Since there is no special clause in your lease requiring straw to remain on the farm, you would be entitled to take your share with you. Make sure that your lease doesn't have any fine print saying no straw can be hauled from the farm.

Shows How Much Water In Cistern

To the Editor: We have a cistern outside the house for home water supply. There is no sure way of knowing how much water is in the cistern unless we lift up the pump. How could we fix up a water level indicator to show the amount left in the cistern?—H. N., Carroll County, Iowa.

The simplest way to make a water level indicator for your outside cistern is to drill about a one-inch hole thru the cistern platform. Cement in a piece of three-quarter-inch galvanized pipe with a flange above the cover and a nut below. It should extend a foot above the platform.

Put a three-eighths-inch pipe down thru the larger pipe. Fasten a float on the lower end. Then saw off the smaller pipe so the tops are even when the cistern is empty. As the cistern fills, the small pipe rises, showing how much water is in the cistern.

$130-$150 Per Month For Hired Man

To the Editor: Can you give me an idea of the fair wage a hired man should get for the 1949 season?—N. L., Jefferson County, Iowa.

The Iowa State Employment Service estimates that a married hired man, who is experienced and capable of assuming responsibility, will get $130 to $150 per month, plus such extras as milk, eggs, meat, utilities, etc.

Exact wage will depend on the farm duties and amount of responsibility the man will have.

A single hired man will receive from $115 to $130, plus board, room and laundry.

How Measure Mow Of Chopped Hay?

To the Editor: How do you measure chopped hay in the mow? I have never seen a table that stated the cubic feet per ton.—A. G., Linn County, Iowa.

When chopped hay has settled one to two months, it takes about 225 cubic feet to make a ton. When it has settled over three months, about 210 cubic feet equal one ton.

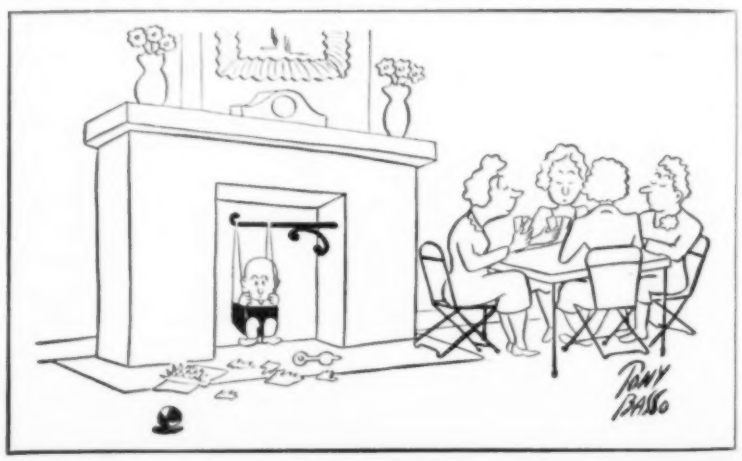
Multiply the width by length by height of the hay in the barn—all in feet. Divide by cubic feet per ton as given above.

Team And Wagon Must Carry Lights

To the Editor: Does a horse-drawn wagon or implement have to carry lights when traveling along the road at night?—C. W., Fremont County, Iowa.

Section 321.398, Code of Iowa, 1946, requires that all vehicles, including animal-drawn vehicles, shall be required to be equipped with at least one lighted lamp or lantern exhibiting a white light visible 500 feet to the front, and with a lamp or lantern exhibiting a red light visible 500 feet to the rear.

Lights must be exhibited at all times from a half-hour after sunset to a half-hour before sunrise, and at any other time when there is not sufficient light to render clearly discernible persons or vehicles on the highway at a distance of 500 feet.



Reward of $50 was paid to Mrs. J. B. Miller, above, who surprised thieves in farm home.

Woman Routs Thieves

A PAIR of ex-convicts whose trail of burglaries crossed five states has been brought to justice by the swift action of a Marshall county, Iowa, farm wife.

A $50 reward check has gone to the farm wife, Mrs. J. B. Miller, for her part in bringing the two thieves to justice. Here is the story in Mrs. Miller's own words, from the files of Wallaces' Farmer and Iowa Homestead Service Bureau:

"I just happened to drive over to my son's house, which is also on our farm. There was a station wagon with Illinois license plates by the back door.

"The back door of the house was open and things looked a little strange. I decided it was my duty to see what was going on. As I walked toward the house, I noticed the station wagon was full of clothing and other things.

"I went on into the house, and noticed a .22 rifle on the kitchen table. As I entered the dining-room, I called to my daughter-in-law. Then I heard a man leave by the north door.

"He had just set down a pair of my son's shoes and his shotgun. I ran after him as fast as I could, but he jumped into the station wagon.

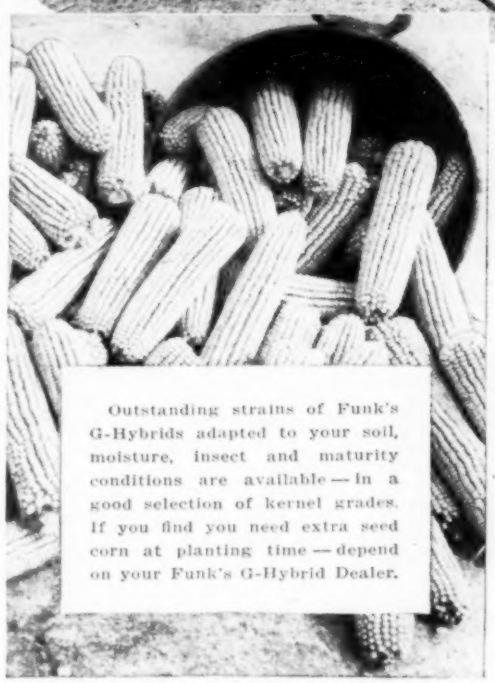
"Meanwhile, the other man ran out the back door from the broom closet, where he was hiding, and got in the car.

"They drove out and headed west. My 13-year-old daughter got the license number. I went back to our house, called the sheriff, and gave him a description of the men, the car and the license number.

"Sheriff Harry W. Jennings notified the highway patrol. City police broadcast the license number to highway patrolmen. Within 20 minutes, the men were picked up in Nevada."

The robbers, Raymond X. Morris and Richard Gordon, pleaded guilty before District Judge B. O. Tankersley, and were sentenced to 10 years in the penitentiary.

Besides breaking into the Miller home, the pair had ransacked the farm home of Leonard Keen, and had looted three farm homes in Tama county, all along Highway 30. The station wagon had been stolen in West Virginia.



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PLANTING time will be here soon. . . . And right now is the time to make sure you have the seed corn you will need for a bumper yield of top quality corn.

Funk's G-Hybrids were tops among the best in 1948—one of the greatest corn years in history, and a year when many hybrids looked good. But in most years, you can figure on your corn running into really tough going. Then the results of Funk Nationwide Research show up best.

When you plant the G-Hybrids your dealer recommends, you get such qualities as Full, Vigorous Stands . . . Fast Starting . . . Rapid Early Growth . . . Super-Standability . . . Resistance to Drouth . . . Resistance to Insect Damage . . . Rapid Drying . . . Mature Ears on Green Stalks . . . And Top Yields of Top Quality Corn.

In 1949, get every plus value of Funk Research. Get Going with Funk's G-Hybrids.

GET YOUR SEED NOW

See your dealer now and pick up your Funk's G-Hybrid seed. Kill two birds with one stone: 1. Avoid last minute rush or delay. 2. Get seed that you can depend on for top results. Get your seed early and check it through your planter, to make sure you have the right plates. Then you're all set to start off toward a top payoff crop in 1949. Remember:

HEAR EVERETT MITCHELL'S GREAT STORIES ABOUT CORN ON YOUR RADIO

FUNK'S G-HYBRIDS ARE CONSISTENTLY GOOD.. YEAR AFTER YEAR

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13½ ft. Body Equipped with 10 TON UNDERBODY HOIST

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Livestock, Grain, Platform Combination

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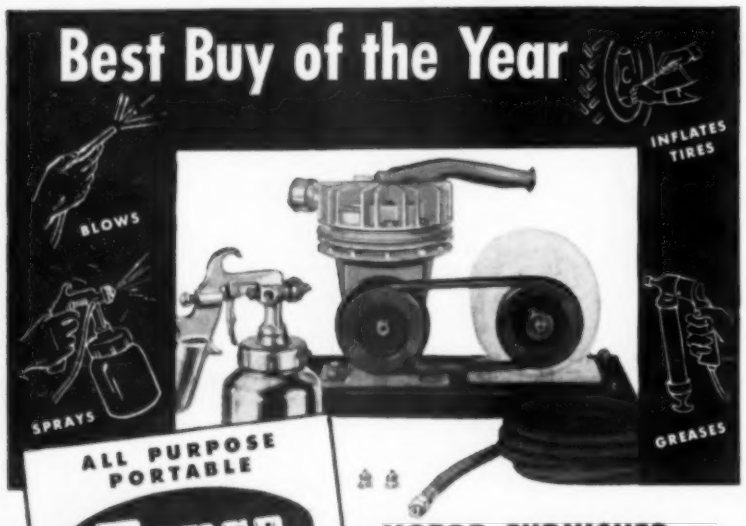

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Second or third litter sows give more milk, raise an extra pig per litter, says Lyle Hawn, Greene county, Iowa. So he likes to farrow half sows and half gilts. This sow has 11 fat youngsters.

Likes Early Pigs

"I HAVE been raising January or February pigs for 10 years. If I didn't, I couldn't raise so many and still do the farm work," says Lyle Hawn, Greene county, Iowa.

"I hope to have these pigs castrated, weaned and vaccinated before I ever sow an oat," he says.

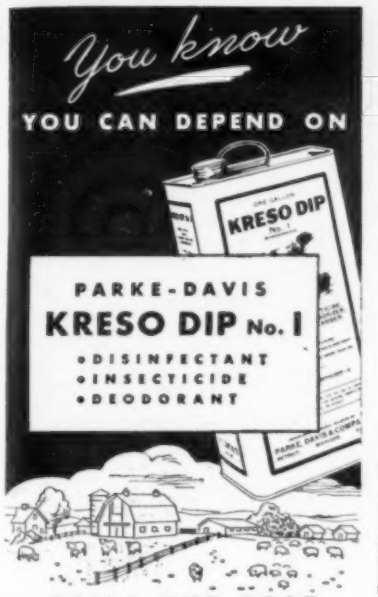
He was talking about the 47 litters of pigs he now has. The first 32 sows farrowed in 10-below weather. He used enough heat bulbs and brooders to burn from 1,000 to 1,200 kilowatts a week.

But it was cheap heat. The 32 sows laid on only two pigs. At one month, litters averaged just a shade under eight pigs.

Hawn's pigs get good care—clean pens every day, exercise, wolf-teeth are nipped off, the sows have plenty of warm water, as soon as pigs will eat they have a creep, and he feeds a well-balanced, complete ration.

Watch little pigs and you will notice they first learn to eat grain by imitating their mothers, Hawn says. For that reason, he puts a four-inch board across one corner of the pen and keeps feed there. By the time the pigs are a few days old, they are nibbling at the feed; then he gives them a creep of their own.

Fresh sod, fortified with copperas solution, is fine for preventing anemia in older pigs. But, during the first week or two, Hawn makes sure that each of the pigs gets a few drops of the solution every day. Here, he doses a pig being held by his brother, Clair Hawn.



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Save Money, Buy Bonds

Hogs Save Corn After Cattle

HOW much feed does a hog pick up following steers? The Iowa agricultural experiment station conducted a series of tests to find an answer to this question.

They found that pigs saved from 57 to 76 pounds of shelled corn per 100 pounds of gain made by each lot of cattle. From two to three and one-half pounds of protein were saved per 100 pounds of gain made by the cattle.

Whether or not the steers are on full feed or on a limited ration will, of course, have a lot to do with how much feed will be recovered by hogs.

Cattle at different weights and at different growth stages use different amounts of corn, and leave different amounts behind.

Most farmers figure one hog after two steers. This usually means that some additional feed will have to be given. Ed Holdin, Greene county, Iowa, gives his hogs an additional feeding of oats and protein once daily, in addition to what they pick up following steers. Mineral is self-fed.

Frank Smith, Sac county, Iowa, bases the amount of additional corn necessary upon the number of hogs following the steers and the number of steers. He self-feeds both mineral and protein.

C. C. Culbertson, in charge of tests at the Iowa experiment station, feels that a big reason why some farmers don't have good luck with hogs following steers is that the hogs are not fed enough in addition to what they pick up.

Self-feeding corn to hogs following steers is not practical, however. If they get all the corn they want, they may not do a good job of cleaning up after steers.

How Much Feed For Cow In Year?

To the Editor: What is the average amount of feed required by a beef cow in a year?—R. S., Wayne County, Iowa.

From farm records and experiment station tests in eight states, this has been found to be the fair, average feed requirement for a beef cow in a year:

With silage: Two tons of silage, three-fourths ton of legume hay, three-fourths ton of other roughage.

Without silage: One and one-fifths tons of legume hay, one ton of other roughage, enough corn to keep in good condition.

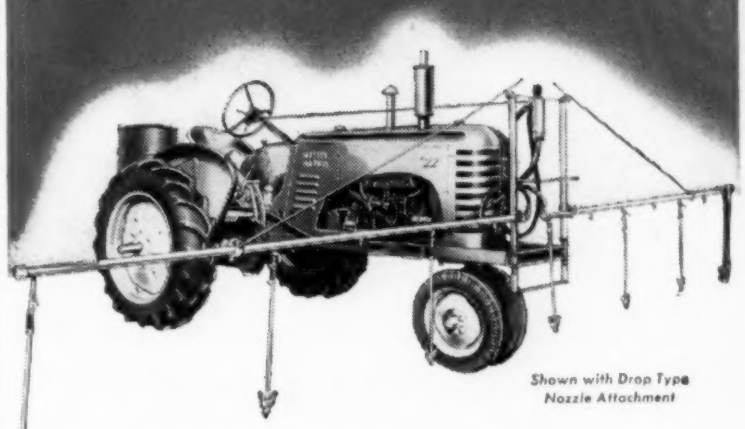
Will Spray Destroy Cockleburs?

To the Editor: Is there any weed spray recommended to kill cocklebur?—Mrs. H. M., Black Hawk County, Iowa.

Cockleburs are susceptible to 2,4-D, tho some patches may need a second dose. They should be sprayed when the young weeds are in active growing condition. 2,4-D kills by its action as a growth regulator.

A quiet, still day is the best time to spray. Keep the nozzles of your spray equipment low, and get the solution down onto the weeds.

FIELD-PROVED on More than 3000 Farms



Shown with Drop Type Nozzle Attachment

The Massey-Harris Sprayer

In field after field these past few years, the chemical control of weeds and insects has proved the practical way to save time, to have cleaner fields, to cut down on labor and cultivating costs.

It's doubly practical and profitable with a Massey-Harris low-gallonage Sprayer . . . a sprayer that's been proved on more than 3,000 farms.

With its compact, big-capacity pump, easily controlled from the tractor seat, this sprayer is adjustable to deliver as little as 3 gallons per acre, precisely where you want it.

The main filter is of large capacity . . . easily removed for cleaning. A second filter is located at the end of the suction hose. Individual filters are in each nozzle. The pressure gauge, on the boom side of the filter, tells you at all times the pressure at the nozzles.

Built with 20 or 30 foot boom.

The corrosion-resistant boom, made in 20- or 30-foot sizes, is of aluminum alloy for light weight . . . easy handling. Boom automatically folds back for circling trees or going through narrow gates. Coil spring returns boom to spraying position — prevents wobbling or whipping. Nozzles are of brass, tin coated, to resist corrosion. Nozzle tips and filters are removable without removing nozzle bases. Bleeder nozzle removes air from system—gives five-second shut off at the end of fields.

Built in two types—front mounted and pull-behind. The 150 gallon tank in pull-behind type is heavily galvanized with sump in bottom. Trailer width is 76 inches—clearance 21 inches.

Adaptable to any tractor.

The Massey-Harris Sprayer is adaptable to any tractor, for both weed and insect control. Look it over if you're planning to spray your fields this coming year. It's another new development by Massey-Harris . . . a thoroughly-tested sprayer, built and backed by a full-line company.

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QUIPS AND QUOTES

IT IS A PAYING proposition to have plenty to fall back on while walking on icy walks.—Danbury Review.

HIGH PRICES hurt any time, but they are not so bad when you have the money to pay them. What hurts is to have things cheap as dirt, but not be able to scrape up the dirt to buy them.—Russell Union-Tribune.

YOU WON'T FIND many success rules that work unless you do.—Algona Upper Des Moines.

NOW IT SEEMS the Dutch were only trying to do the Indonesians a service. Check their oil, that is.—Webster City Freeman-Journal.

SOUTH DAKOTA proposed to require women to have fishing licenses. So far, nothing has been said about any closed season on the one type of poor fish which the ladies most avidly seek and most frequently hook.—Sioux City Journal.

THE PRESIDENT will be accountable to nobody for that extra $50,000 in expense money granted him by congress—except Mrs. Truman.—Mason City Globe-Gazette.

EVERYBODY learns something every day—and a lot forget it the next.—Waterloo Courier.

ONE FELLOW says the nearest he ever came to public speaking was a proposal to a girl over the phone on a country line.—Algona Upper Des Moines.

AS THE LITTLE BIRDIES well know, many a love nest is built on no stronger foundation than a cute little limb. — Schleswig Leader.

A PSYCHOLOGIST for children says a spanking misses its aim. It didn't when we were a lad.—Marathon Republic.

IF YOU WANT to kill your wife with curiosity, just clip a brief item from the paper before she's read it.—Estherville News.

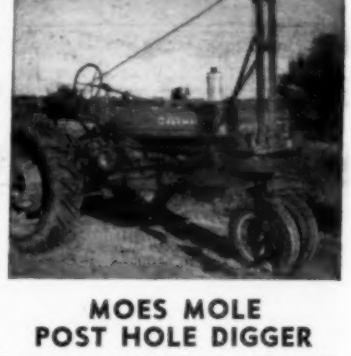
THOSE WHO DEMAND an end to farm price supports should be equally vigorous in demanding an end to all protective tariffs.—Garner Leader.

WITH ALL THE FUSS dairy farmers are raising about yellow color being applied to oleomargarine, we wonder why the lard people haven't kicked about some vegetable shortenings being sold white.—Northwood Anchor.

IF YOU WANT a place in the sun, you'd better expect to get a lot of blisters. — Lenox Time Table.

THE LOVE FOR WORK is not inherited. It is acquired. The man who doesn't acquire it seldom acquires anything.—Belmond Independent.

MAKES POST HOLE DIGGING *EASY!*



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You can dig post holes for an entire new fence without leaving your tractor seat. Here's all you do. Drive tractor into position. Lower auger and watch it dig the post hole to the required depth. Raise the auger and move to the next position. It's fast and easy.

Low in cost, the MOES MOLE attaches to tractor in a jiffy. Digs a nine inch hole three feet deep in less than ½ minute. Adjustable belt drive eliminates gears and universal joints; prevents damage when striking hidden rocks. Will give years of trouble free service.

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TEAT DILATORS

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The "All Weather" Cab—For Winter and Summer! Fully Adjustable for Height!

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Cowgirl Queen Vet of 84 Rodeos!

"Collects" First Prize Saddles

HAMLIN, TEXAS—Pretty 21-year old Jessie Myers sets a fast pace for her two older brothers, who also ride in rodeos. Jessie is especially proud of her latest win . . . beautiful hand-tooled saddle . . . first prize in sponsor's contest at '48 Texas Cowboy Reunion. Her 84th rodeo.

Has won three others too!

"BEEN RIDING since I was thirteen," says cowgirl Jessie Myers. Most of her prizes are won in girls' events—barrel race, flag race, goat tying, cow milking contests. Rugged schedule? Jessie eats her Wheaties! Started early—heard about the "Breakfast of Champions" on radio. Now she has these 100% whole wheat flakes at breakfast "most every morning".

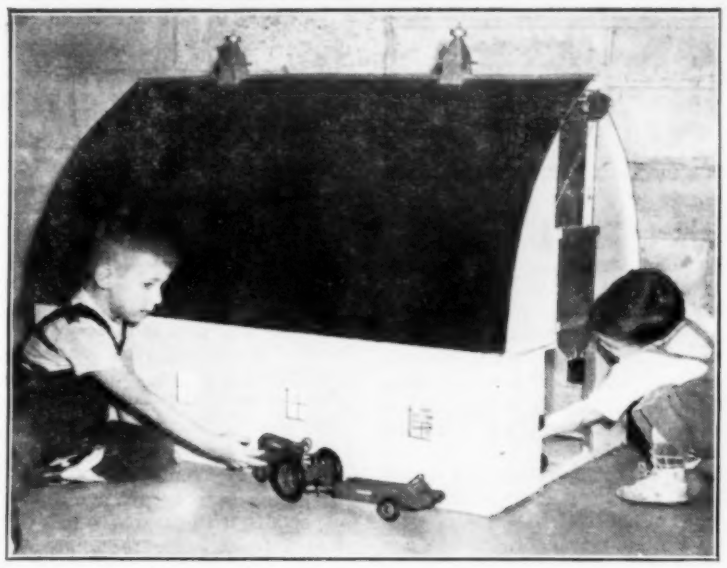
* * *

ATTRACTIVE brown-eyed rodeo queen happily busy the year 'round. Teaches horseback riding—has active interest in tennis, swimming, softball, basketball. Youngest of lively three generation Myers family, Jessie says, "We all eat Wheaties—been our favorite cereal for years". Many three generation Wheaties families. Some families report four, even five generations enjoying "Breakfast of Champions"! Famous for nourishment—these toasty whole wheat flakes. Second-helping good, with milk and fruit! Your family had their Wheaties today?

Farm-size families find it convenient to order their Wheaties in the handy, Extra-Big-Pak. Holds 50% more than regular package. If you have several to serve, get the Extra-Big-Pak of Wheaties!

"Wheaties" and "Breakfast of Champions" are registered trade marks of **General Mills.**

"I'll teach you to balk for a Wheaties man!"



Toy Barn makes an ideal plaything for Stewart, 5, and Kelly, 2, sons of Stewart Elson, of Dallas county, Iowa. The barn is made of wood, has a hay-loft equipped with real fork and track.

Sex Hormone Makes Heifers Get Fat

Spayed Heifers Show Up Poorly In Feeding Tests At Purdue Station

HOW to fatten beef heifers for market is a subject that has been argued by cattle feeders. Some have tried spaying to make heifers feed like steers.

Now a sex hormone has been found that seems to speed up the growth and fattening of heifers. It isn't mixed in the feed at all. Little pellets are injected under the skin.

In a test at Purdue University, two sex hormones and two substances that affect the activity of the thyroid glands of the neck were tested. One lot of spayed heifers and a regulaar check lot were included in the test.

Heifers weighing about 500 pounds were fed 140 days in 1947. Similar heifers were fed 187 days in 1948. All got the same feed with the exceptions named:

Lot 1—This was the check lot. The heifers got a good balanced fattening ration with no extras.

Lot 2—These were spayed heifers. They were fed the same basic ration as Lot 1, and received no extras.

Lot 3—These heifers got the basic ration plus stilbestrol. Stilbestrol is a female hormone-like chemical. It was injected under the skin.

Lot 4—These heifers were given testosterone. This is one of the male sex hormones. This also was injected into the heifers.

Lot 5—This lot was fed thiouracil in the feed. This substance reduces the activity of the thyroid gland in the neck.

Lot 5—In the second year of the test, this lot was given thyroprotein instead of thiouracil. Thyroprotein is a material that contains the hormone produced by the thyroid gland. It was put in the feed.

The fastest gaining heifers in both 1947 and 1948 were those in Lot 3. They got the female hormone, stilbestrol. These heifers also made 100 pounds gain on the smallest quantity of feed. Here are the results for each year:

In the 1947 test, the heifers that got the stilbestrol injection gained 2.32 pounds per day for 140 days. They gained 100 pounds on 743 pounds of feed.

There was no significant difference between the results in Lots 1, 4 and 5. Gains were around 2.10 pounds per day and feed requirements were a little under 800 pounds.

The poorest doing lot was the spayed heifers. They gained 1.91 pounds per day, with feed requirements per 100 pounds of gain at 891 pounds.

In the 1948 test, the heifers in Lot 3, which got the stilbestrol injection, gained two pounds per day for 185 days. (Lower gains may have been due to the longer feed.) Feed requirements were 992 pounds.

Lots 1 and 4 came nearest to the results in Lot 3. They gained about 1.72 pounds per day on feed requirements per 100 pounds gain of about 1,100 pounds.

The poorest doing heifers were the spayed heifers and Lot 5, which got thyroprotein. Their gains were a little over 1.50 pounds per day on about 1,200 pounds of feed for 100 pounds gain.

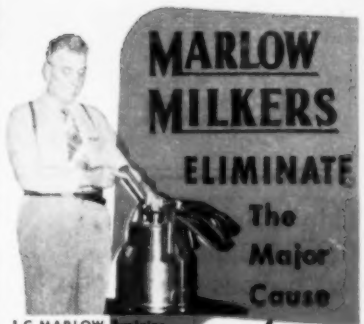
Feed-lot results for the two-year experiment seemed to lead to the following conclusions:

The female hormone-like substance, stilbestrol, increased daily gains and reduced feed needs.

Spayed heifers fell behind the average daily gains. Spayed heifers also required more feed for 100 pounds gain than other groups.

The use of testosterone for two years, thiouracil and thyroprotein for one year each, indicated no benefit from these substances for fattening heifers.

In announcing the results, the Purdue experiment station men say that "there are great differences in the effects of hormones on different classes of animals." Therefore, the results might be different with hogs or poultry.



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That's What MARLOW Users Everywhere are Saying.

Dairymen who have seen their cows' udders improve and milk production increase are anxious to tell others what MARLOW MILKERS are doing for the dairy farmers.

MARLOW MILKERS are backed by 40 YEARS' EXPERIENCE.

The new, modern MARLOW MILKER has been developed from J. C. Marlow's 40 years' experience selling and servicing milking machines and breeding purebred dairy cattle. That experience is built into the MARLOW, the milker with perfected low vacuum and a combination of features that eliminate the major cause of mastitis. The MARLOW gets *all* the milk *faster* without irritation or stripping. Teat cups *do not pull, tug or crawl.* And the MARLOW is the most easily cleaned milking machine made today.

The MARLOW MILKER is backed by a **90 DAY** *Money-Back* **Guarantee**

See Your MARLOW Dealer.

Read These Letters From MARLOW Users

Tony Hack likes the Marlow Milker for what it does for him and his herd. Daughter Mary Louise admires its clean, bright appearance.

Anton Hack, Lakeville, Minn.: "Before using the Marlow Milker, I had trouble with mastitis. Since installing the Marlows, I have had no udder troubles whatsoever."

Emerson F. Hoffman, Delta, Ohio: "I can truthfully say that the Marlow Milker has eliminated mastitis from my herd. The Marlow Milker is the greatest milker in the world."

Andrew Skopyak, Clayton, Wis.: "My mastitis has completely disappeared. The Marlow soon pays for itself in increased production and healthier udders. It is the best paying investment I've ever made."

Carlisle C. Erb, Guerwyn Farms, Iowa City, Iowa: "After using a Marlow Milker for some time I want to pass out this information. Condition of teats is much improved and now they are soft and have no leathery feel."

Evan T. Evans, Ixonia, Wis.: "I had 15 cows that I was just ready to ship due to mastitis when I purchased a Marlow Milker. I saved these cows and my herd is now entirely free of mastitis. If the dairymen of the country would use Marlow Milkers, they would eliminate their terrific mastitis loss."

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The MARLOW sales organization offers a real opportunity for full or part time representatives. We prefer to work with dairymen who can really appreciate that the name MARLOW is *going down in history for the greatest contribution* ever made to the dairy industry. WRITE TODAY, giving an outline of your qualifications and background.

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Definitely Easiest on Udders!

Voice of the Farm

Thinks Small School Out Of Date

To the Editor: We believe the small one-room school has had its day and is now as outmoded as the horse and buggy.

For more than three years now, we have paid tuition and bus transportation to send our children to our local consolidated school. Expensive? Yes, from the standpoint of money. But, figuring in terms of better education, no!

We spend billions for wars; why not a small fraction of that for the best schooling it is possible to provide?

Our children travel an average of around 35 miles per day, round trip. It has never proved injurious in any way to their health.—Subscriber, Madison County, Iowa.

Quality of schooling probably is the important thing.—Editor.

Objects To 10-Hour Day For Kids

To the Editor: We need different school bus schedules or more busses to reduce the mileage to and from school.

I have ridden in school busses—horse-drawn at that—and they did not start for school until 8 o'clock over a seven-mile route. But we were always at school in time.

Now many school busses start at 7 o'clock, in 20-below-zero weather or otherwise. It is altogether too early for small children to get up, eat breakfast, and be ready for school.

A day laborer works an eight-hour day, while the little kids are putting in 10 hours. It just doesn't make sense.—School Board Member, Bremer County, Iowa.

Unless it means a better education for the youngsters.—Editor.

New Arguments For Small School

To the Editor: I don't like the idea of a consolidated school when we have all good school buildings in our township.

It doesn't make sense to me to bunch rural children into towns that already have a lot of children in the schools. Then, if a disease breaks out in the school, the whole community is exposed.

Then, when the roads became blocked, busses could not get thru. And if the driver had a heart attack, what is going to happen to those little children out there in snow and cold? — O. F. Schmitt, Jasper County, Iowa.

Better hire healthy drivers.—Editor.

Suggests New System Of Rural Education

To the Editor: I once heard President Morehouse, of Drake University, say that one of the things needed by the American people was original thought. This applies especially to our rural school problem.

Our present system of schools was built on the premise of the itinerant pupil, with the school center within walking distance of the home, and the teacher's wage not a burden on the community.

With decreasing school population and increased wages, the trouble began. Consolidation was the talk until the word became odious, and now it is reorganization — still on the premise of the itinerant pupil.

There are many thinly populated areas in which the itinerant pupil might well be replaced by the itinerant teacher. There are places in Iowa where such a teacher could care for the pupils in three or four school districts.

Of course, this plan won't work for two reasons: We have no teacher qualified to go into the home, sell herself to the parents, and bring the children up thru the grades; and the parents would not consider their children educated unless they had spent the required number of hours in school for 12 years, with at least 22 ball games during the season.

But there ought to be some way to develop a program for our thinly populated areas. Individual instruction is far more efficient than mass education. — A. C. Minear, Van Buren County, Iowa.

You might have trouble selling such a plan to tenants—especially if the teachers had to travel from home to home on mud roads.—Editor.

Doesn't Want Schools Torn Down

To the Editor: We have four new schools, all modern and with electricity. Why should we sell or tear them down?

Besides, I have lived here 31 years, and we still have the same old mudholes. I use two cars to get the children to school. The roads aren't even dragged all summer. And when we are snowbound I have to plow myself out.

So I am against busses. A bus could never get to my farm, anyway.

They better get the roads in shape for busses to run on first—then think about reorganized districts. — Joseph Kvasny, Jasper County, Iowa.

Nobody can argue much with that.—Editor.

Don't Let AMIN

Cut O

SHORTAGE

This is what happens when the feed contains no arginine — one of the vital protein amino acids. Notice the poor feathering. Lack of other vital amino acids will also cause poor growth or poor feathering. Make sure your chick starter supplies all the vital amino acids.

BALANCED

This chick got the same *percentage* of protein as the other, but the protein contained enough arginine. Notice the good growth and feathering. *Here's proof* that your chicks need this vital amino acid for fast, thrifty growth. You're sure to supply all of the vital amino acids when you feed Kellogg's Amino-Built Chick Starter.

Your Chicks Need All 10 of These Vital Amino Acids to grow to 2 lbs. weight

	Units in 2 Lb. Bird	Units in Kellogg's Chick Starter She Eats		Units in 2 Lb. Bird	Units in Kellogg's Chick Starter She Eats
1. Arginine	.46	1.40	6. Methionine	.10	.22
2. Histidine	.13	.52	7. Phenylalanine	.28	.91
3. Isoloucine	.31	.94	8. Threonine	.30	.79
4. Leucine	.49	1.62	9. Tryptophane	.06	.26
5. Lysine	.53	1.22	10. Valine	.42	1.18

Note: Glycine, now regarded as another vital amino acid, is also built into Kellogg's Chick Starter.

Feed Kel
CHIC
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Children In School Half A Day

To the Editor: I think if many parents in Iowa had the problem we have in this school district, they would be glad to have their children ride 20 miles or more each day to get an education.

Ten years ago, our rural school had 10 pupils. Now it has over 240. First, one room was added. Then the basement was made into a classroom and one of the first rooms was divided. We have four teachers, and all grades from primary thru eighth.

Since it is impossible to get all the pupils seated at one time, each grade goes only half a day. Most parents have some children going to school just in the morning and others going just in the afternoon.

I am very much in favor of redistricting, even tho many children have to ride long distances in busses. Anyone at all interested in the education of children will realize that attending school for only a half a day is not fair to any child.

When I read about parents objecting if their children had to ride 10 miles a day, I felt I had to speak my mind. If their children have a school to go to where each child has his own desk and a place to hang his coat and cap, they had better not complain at all.

We pay high school taxes, and still can't really say we have a school.—Mrs. Charles Wiese, Jr., Scott County, Iowa.

But many folks complain about redistricting because they say present rural schools do have room enough — without a long bus ride.—Editor.

CHICKEN OR EGG?

Which comes first: Reorganization of schools or improvement of roads? Read what a southern Iowa farm woman has to say about this in the article on page 30.

She Favors Larger High Schools

To the Editor: When we speak of school consolidation, why is it always in terms of a combined grade and high school?

It seems to me that what we need is small consolidated grade schools on a township basis, so the little folks don't have to ride too far in a bus.

Then the bigger high school—even a centrally located county high school—could be organized. What if the high school pupil should have to ride 10 to 20 miles? Isn't the diversified program they can offer of more advantage to the pupils than a half-hour or an hour of work at home after school?

And what about extra-curricular activities? What can a small high school of four teachers offer except athletics, which they never seem to miss? What about the literary clubs, music organizations and dramatics, to name just a few? Along the way, we are forgetting the aims of education.

Many farm people say: "Well, my child has more book-learning than the city child." Is life all book-learning, or should it include learning to play, to create, and to meet people?

Aren't our farm children worth the higher school taxes that consolidation would cost?—M. S., Clinton County, Iowa.

This is what many of our educators favor — a large, central high school, with several grade schools scattered around the consolidated district.—Editor.

Says Bus Can't Run On Mud Roads

To the Editor: Who thinks up ideas such as sending grade-school children to school on a bus with the roads we now have?

Have they ever seen our state, county and private roads, which are drifted closed for a week or more at a time, or are mudholes whenever it rains?

Some of the children in our school live nearly two miles from the main road in every direction. If they were all picked up at their doors, how many miles would the first child in the bus have to ride before all were picked up or delivered to their homes? What time would he get on and off—or would he get off at all?

I think children should spend all the time they can on the farm, helping and learning the only self-feeding occupation on earth—instead of learning stories and tricks in a school bus.

It appears to me someone is doing everything possible to close up our rural schools—which are healthier and sounder in nearly every respect.—H. H. Schulte, Allamakee County, Iowa.

Certainly, better roads must come first.—Editor.

Sell 20 Per Cent Of Your Sows?

To the Editor: The only way we can get our hog price up is to have every hog raiser sell 20 per cent of his sows right now. A good farmers' strike would wake the packers up.

Taxes and machinery are too high for the price they expect us to take for our hogs. Let's buy a hammock in the spring and forget that extra 10 acres of corn and new tractor.—J. C. Achatz, Fillmore County, Minnesota.

Might not be enough hammocks to go around.—Editor.

NO HUNGER at Chick Growth!

• What is Amino Hunger?

It's a form of protein starvation.

When it strikes, chicks fail to feather out or grow well — no matter how much they eat. Amino hunger is not caused by a lack of total protein. It's caused by a lack of something in *the* protein itself.

Your chicks must get from the protein they digest a *variety* of simple units called amino acids. These are the *real* building materials of flesh, blood, and feathers. Ten of these are vital to life itself. If even one is missing, or short, the chicks cannot thrive!

• Why do Some Feeds Lack Important Amino Acids?

Most natural proteins are low in one or more of the vital amino acids. That's why it's risky to feed chicks a one-protein ration.

Good mixed feeds give better results because an extra amount of a key amino acid in one ingredient helps offset a shortage in another. But how can you be *sure?*

The best way to make sure a feed contains all of the vital amino acids is to go *a step further!* We check the amino acid value of *each* ingredient and *build the feed to meet the known amino acid requirements!* Yes, Kellogg's Chick Starter is a new, more dependable kind of feed. It's *Amino-Built!*

• How Can You Protect Your Chicks Against Amino Hunger?

Raise your chicks this year on Kellogg's Chick Starter — the wonderful new amino-built feed.

Kellogg's Chick Starter will help your chicks grow faster, feather out better, develop into big, husky birds. It will help you save feed. It will help you save money. It will protect your chicks against the costly waste of amino hunger.

Remember, when a ration lacks one of the vital amino acids, baby chicks *have to slow down* to meet the shortage. That means waste of some of the other vital amino acids. Kellogg's Chick Starter gives your birds *all 10,* helps prevent waste. That's why Kellogg's Chick Starter is built to produce *more growth per pound of feed.*

• Why is Kellogg's Chick Starter Better?

Kellogg's Chick Starter gives your chicks known, dependable amounts of the vital amino acids. Yet *it costs no more* than other starting feeds that do not give you this assurance.

Kellogg's Chick Starter is rich in vitamins and minerals and carbohydrates, too — a complete feed. Try Kellogg's Chick Starter. See if it doesn't help you raise the finest, strongest chicks you've ever had. See your Kellogg Feed Dealer today.

Kellogg's AMINO-BUILT CHICK STARTER

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Homemaking Department

Edited by **ZOE MURPHY**

Mrs. Wilbur Hanson, of Pocahontas county, Iowa, says that her bottled gas range has done more to modernize her housework than any other piece of equipment that she has in her attractive and modern kitchen.

Mrs. Lloyd Rittgers, Webster county, Iowa, has used her range nine years. It's still economical and efficient.

Cooking Has Changed

WHAT kind of a stove do you have in your kitchen? Does it burn coal, cobs, kerosene or bottled gas? Years ago, that question was easy to answer. Almost everybody used a coal or wood range. Some changed to kerosene in hot weather.

But now things are more mixed up. Many of the women on the farms have modern versions of electric, coal, wood and kerosene ranges. And a big number use bottled gas.

In going around the state, the Homemaking Department kept running into kitchens where bottled gas was used. And that led to questions.

"I've had my bottled gas range for nine years," said Mrs. Lloyd Rittgers, of Webster county, Iowa. It isn't as new and shiny as some of the newer models, but it still gives wonderful service, and I would not exchange it for anything."

Even tho Mrs. Rittgers stove isn't new, it is equipped with three standard-size burners and a giant-size one, a large broiler and a heat regulator. This makes her cooking methods as up to date as tho she had bought the stove last year.

Mrs. Rittgers goes on to say that she has found bottled gas to be an efficient and economical fuel. "I have no other way of doing my cooking," she says. "I bake regularly, and can operate my stove for $1.75 per month."

Mrs. Tom Meyers, who lives in Franklin county, Iowa, has had her kitchen range for seven years. While she doesn't say how much it costs to operate, she does say: "I think that bottled gas is wonderful. It furnishes good heat at a minimum cost."

Another farm woman in Hardin county, Iowa, was especially well pleased with the performance of the oven in her bottled gas stove. She said that it seemed to be particularly well insulated and made baking easy and dependable.

Anyone can have bottled gas. Stoves and other equipment which use this fuel can be moved from farm to farm with little or no change or adjustment.

There is a farm family in Madison county, Iowa, who bought a bottled gas refrigerator a number of years ago.

Later, the family changed the refrigerator over to burn kerosene. When they moved to town a few years after that, it was adjusted to burn city gas. Now it is back on the farm — good as ever — and burning bottled gas again.

However, for anyone selecting a range, it is best to buy one that is built specifically for the use of bottled gas. Converting to other fuel adds to the original cost.

A good many farm women feel that their kitchens need more heat in cold weather. In such cases, the combination range that burns both bottled gas and either wood or coal is satisfactory.

For anyone used to other fuels, it requires a little time to become accustomed to cooking with bottled gas. It is always a good plan to study the instruction book carefully, so that you can use your stove efficiently and economically.

There are a good many automatic water heaters in use in farm homes over Iowa. These heaters operate just as economically as the stoves, and furnish hot water 24 hours a day.

Bottled gas is available in almost every rural trading center. Some people use the gas that comes in small drums which they can service themselves.

Other women prefer to depend upon a local service man for checking and delivery. Mrs. Meyers reports that her bottled gas service is wonderful. It takes less than an hour to get a supply out to her farm home.

Yes, cooking has changed, but for the better. It is certainly easier than it used to be, when a farm woman had to split kindling, hunt for wood, or drag in a scuttleful of coal before she could start thinking about supper.

Most farm men were good about the kindling and the wood-box, but sometimes they'd forget or were busy. How much more fun it is now to press a button or turn on a switch and get things started.

Nobody appreciates the modern farm range like the older woman who used to do it the hard way.

COUNTRY AIR

By ELIZABETH C. WHERRY

THERE'S a farmer over in Illinois who has an idea. In fact, he has a lot of ideas. But there's one in particular that he has written to Country Air about.

* * *

The death recently of his aged mother left him aware that he was now the older generation. He has several grandchildren. All of this started him thinking that he was getting past middle-age—a peculiar experience that they say happens to all of us.

* * *

He is not retiring. In fact, he is still on the farm and doing a lot of things, tho he may leave the hay-making up to the younger chaps. But he is aware that science has made people live longer, and that makes more old people in every community.

* * *

He's been wondering about these old people. He's been wondering how they put in their time, and if they're happy and useful and busy at the things they like to do.

* * *

Sociologists and psychologists and economists and doctors and a lot of other smart people are wondering about this group of people, too. But my friend from Illinois pops up with an idea: "Why not have a 4-H organization for oldsters?" he asks.

* * *

Then he gives with his ideas. He's working with a group of people and making recordings that he hopes will in time add up to an agricultural history of Illinois.

* * *

(I wonder if he is getting stories of runaways—horses, I mean. They were as exciting and almost as disastrous as auto accidents are today. They were typical of a certain period.)

* * *

He says: "The purpose of 4-H among youth is to enable them to acquire the balance necessary for creative and productive work. The purpose of an old folks' 4-H should be to prevent losing stabilized balance and allow a continuity of creative and productive work."

* * *

In other words, what's the use of having a lot of birthdays if they don't bring some rewards similar to the ones we have when we're kids?

* * *

He's all out for older farmers doing the accounting and record-keeping of the research department that every farming unit should have.

* * *

One of his top ideas is a "Compliment Club." Morale boosting by old folks saying something nice about each other might uncover speed in the old horse yet. As a matter of fact, practically every club could do with a Compliment Department.

* * *

What's the situation in your community? Are there enough older people to start such an organization? Who will be smart enough to do a little experimenting?

* * *

I've a hunch this "idea man" would welcome your plans or questions. He may be just the chap to produce a workable plan out of an accumulation of information.

* * *

The fact is that this idea has been worked out in a number of city situations. There has always been some sponsoring organization or specially interested people to spark-plug the idea.

* * *

But farm people are different. They remember the little red hen, who couldn't get anyone to harvest her grain. "Very well, then," said the little red hen, "I will—I'll do it myself." And she did.

THESE WILL TELL YOU HOW

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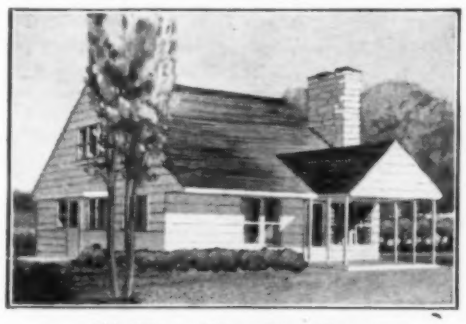

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SWEETOSE . . . the extra-sweet, free-flowing corn syrup that is new and different . . . will please you. Delicious on pancakes, biscuits or waffles. Ideal for infant feeding. Perfect for making hundreds of the most delightful dishes you ever tasted. Get Sweetose, and send for your Cake and Pie Server today!

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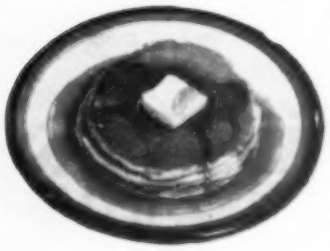
"THE EXTRA-SWEET CORN SYRUP"



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Please send me the Cake and Pie Server you offer. I enclose 50¢ and label (or paper disc) from bottle (or can) of Sweetose.

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Offer good in U. S. A. only. Expires Jan. 1, 1950. Void if restricted in your community.

Mrs. L. A. Krausman, Jr., who married her GI husband in England, brought many delicious recipes with her when she came to live on a Story county, Iowa, farm.

The English Have A Word For It

A Good Recipe May Come From Next Door Or It May Come From Hearths Overseas

IN ENGLAND, if a thing tastes "just peachy," they say: "That's really a plum." This explains how plum pudding got its name. It may contain everything but plums. But it tastes "peachy."

There is a fascination about getting the background of the recipes you use. Some travel only from a neighbor's kitchen to your own. But many have come all the way from hearths across the ocean.

Each country has something to contribute to our eating pleasure, and Great Britain is no exception.

All of us have heard the old jingle: "One a penny, two a penny—hot cross buns." It was the sales talk of London street criers when they offered hot cross buns at Eastertime.

Frank Higginbottom, Polk county, Iowa, remembers that he was disappointed the first time he had a hot cross bun. Each pupil at his school was served a bun at Easter. Frank's bun tasted quite ordinary—not at all glamorous.

But our modernized version of hot cross buns is tasty enough to make a nice Easter surprise for your family.

HOT CROSS BUNS

Mix your favorite plain roll dough with the addition of three-fourths cup currants and one-half teaspoon cinnamon. Make into buns and flatten on top. Brush the top with slightly beaten egg-white or milk. Let rise until very light. With scissors, snip tops of buns to make crosses. Bake 25 to 30 minutes in a 375-degree oven.

Remove from oven, and, while still hot, brush lightly with powdered sugar frosting. (Mix powdered sugar and cream to a spreading consistency. Add a few grains of salt and half a teaspoon of vanilla.) When cool, make crosses with more of the frosting.

There is an interesting history connected with this recipe for Christmas cake or birthday cake. Two years ago, a cousin of the Swalwells, from Elland, England, visited them for six months.

During that time, she celebrated her birthday, and friends at home surprised her with a package containing a birthday cake. Everyone liked it so well that Beatrice wrote back to England for the recipe. Here's how to make the cake:

CHRISTMAS CAKE OR BIRTHDAY CAKE

3½ cups confectioner's sugar
2 cups butter
5 cups flour
3 cups currants
3¼ cups raisins
4 oz. minced peel (candied)
2 oz. ground almonds (or 6 to 8 tablespoons coconut)
2 oz. glace cherries
2 oz. blanched and shredded almonds (or ½ cup walnut meats)
1 teaspoon allspice
½ teaspoon baking soda
1 teaspoon baking powder
5 eggs
A little milk to mix

Cream butter and sugar together. Sift flour and measure. Sift together flour, spices and baking powder. Add currants, raisins, candied peel (finely grated), almonds, cherries, ground almonds (or coconut).

Separate the eggs. Beat yolks until frothy. Mix with butter and sugar. Add dry ingredients. Fold in whites of eggs. Last of all, add the soda dissolved in a little warmed milk, and add a little milk

Two-year-old Kenneth Krausman was born in this country, but he likes the food his mother makes from her English recipes.

to mix to a stiff batter. Bake in a moderate oven four hours.

You may not be serving plum pudding right now. But any time is the time to collect a good plum pudding recipe.

When Iva Swalwell, of Jasper county, Iowa, makes this rich pudding each year, it may be eaten by grandchildren, great-grandchildren and great-great-grandchildren of the man who brought the recipe from Coventry, England when he came to Iowa, back in 1860.

Iva's great-grandfather had been a baker by trade in England, and liked to keep his hand in by making the plum puddings and doing some of the baking for his daughter's family. During the Civil war, he was a cook for the army camp at Prairie du Chien, Wis.

The old way to cook the pudding was to put it into a pudding bag and boil it in an iron kettle for eight hours. That meant getting up long before daylight on Christmas morning, and doing a lot of firing. Iva now simplifies the method by steaming the pudding for five hours.

ENGLISH PLUM PUDDING

4 eggs
Pinch of salt
1½ cups sugar
½ cup molasses
1½ cups suet
3 heaping teaspoons baking powder
1 cup sweet milk or fruit juice
1 teaspoon cloves
1 teaspoon nutmeg
1 teaspoon cinnamon
1 teaspoon allspice
1 cup mixed candied fruit peel
1 cup seeded raisins
1 cup seedless raisins
1 cup currants
Other fruit if desired
Flour enough to make into a dough of soft-ball consistency.

Spoon the batter into buttered pans and steam for five hours.

As sauce for the plum pudding use three cups boiling water, a pinch of salt, butter the size of a walnut, one-half cup sugar, nutmeg to season. Thicken with cornstarch until it is about like thick cream. Serve pudding and sauce piping-hot.

Kathlynn Krausman, of Story county, Iowa, who married a GI in England and came to live on a farm in Iowa, cooks some things as she did at home and some things the way her husband has always had them here.

Yorkshire pudding is one dish that Mrs. Krausman brought with her. It is particularly good with roast beef, but, she says: "An Englishman likes Yorkshire pudding with any meat."

Mrs. Krausman does not depend on recipes.

"I always add the ingredients until it seems just right. I never saw my mother use a cook book. In fact, she doesn't have one in the house."

For Yorkshire pudding, she makes a batter similar to a thin pancake batter. To bake it, she takes about two tablespoons of fat from the beef she is roasting and puts the fat in a baking dish. The pudding batter is then added and baked in the oven. Served with gravy, it gives a change from potatoes.

YORKSHIRE PUDDING

1 cup milk
1 cup flour
2 eggs
¼ teaspoon salt

Mix salt and flour, gradually add the milk, stir until smooth, add eggs and beat hard. Grease a baking dish with fat from the roasting meat. Spread pudding mixture in the baking pan to a depth of one-half inch. Bake 20 minutes in a hot oven.

As soon as the mixture is well risen, baste with some fat from the roast. When done, cut into squares and serve on the platter surrounding the meat. Secret of success with Yorkshire pudding is to serve at once before it gets cold.

Mrs. Frank Higginbottom, Polk county, Iowa, has a favorite recipe for tarts which she got from a relative on a visit to England.

She also brought back a dozen tart tins. These are like tiny shallow individual muffin tins. When covered with pastry and baked, they make a tart just big enough to hold one spoonful of jam or filling.

MAID OF HONOR TARTS

½ cup powdered sugar
⅓ cup ground almonds (or shredded coconut)
1 egg white, beaten

Line tart tins with pastry. Put in one teaspoon jam or jelly. Add one tablespoon of above mixture. Criss-cross with bars of pastry. Bake till brown.

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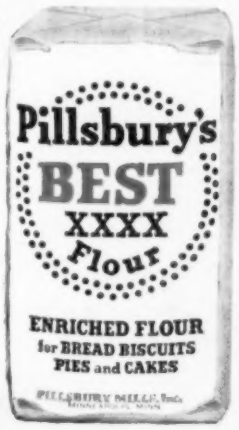

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COOKERY CORNER

DATE PIE

2 eggs
½ cup sugar
1 tablespoon flour
1 teaspoon vanilla
¾ cup chopped nutmeats
1 cup dates
1 level teaspoon baking powder
Pinch of salt

Beat egg yolks until thick and lemon-colored. Add sugar, flour, baking powder and salt, which have been sifted together. Beat well. Add vanilla, dates and nutmeats. Fold in the stiffly-beaten egg whites. Pour mixture into a greased pie-tin and bake for 30 to 35 minutes in a 300 to 325 degrees oven. Serve with whipped cream.—Miss Orvad Koenigsberg, Franklin County, Iowa.

CHERRY SQUARES

2 cups pitted cherries
1 package cherry flavored gelatin dessert
½ pint whipping cream
½ cup butter
1½ cups powdered sugar
1 egg
18 graham crackers, crushed

Make cherry flavored gelatin dessert, using cherry juice as part of the liquid. Let set. Cream butter and sugar and add slightly beaten egg. Crush graham crackers. In a 7x11x2-inch pan place a layer of graham cracker crumbs and then the creamed butter and sugar mixture. When gelatin is partially set, whip. Whip cream and fold into the gelatin with the cherries. Pour over mixture in pan. Top with a layer of crumbs. Serves 10 to 12.

CREOLE BEAN SOUP

2 cups dried navy beans
2 quarts water
1 ham bone
2 cups shredded carrots
2 onions, chopped
1 cup chopped celery and leaves
3 tablespoons chopped green pepper
2 cups canned tomatoes
Salt and pepper to taste

Soak beans overnight. Add ham bone and cook until beans are tender—about two and one-half hours on top of stove or about 30 minutes at 15 pounds in a pressure cooker. If the latter is used, reduce the water to three pints. Remove ham bone, cut off meat in small pieces. Rub beans thru a sieve and return to the broth. Add the other ingredients and simmer, covered, until vegetables are tender—about 30 minutes on top of stove or 10 minutes at 15 pounds in pressure cooker. Add chopped ham and serve. Makes six to eight servings.

CREOLE BAKED MACARONI

1 cup sour cream
1 cup macaroni
2 eggs, slightly beaten
1 teaspoon salt

Break macaroni in one-half-inch lengths. Cover with boiling salted water. Cook until tender. Drain. Arrange macaroni in a well-buttered casserole. Combine eggs, sour cream and salt. Pour over macaroni. Bake in a 325-degree oven 35 to 40 minutes.—Harriett Russell, Richardson County, Nebraska.

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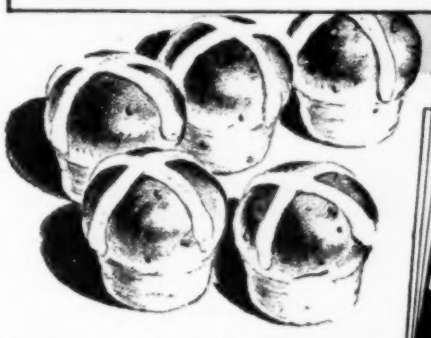
30 MINUTE HOT CROSS BUNS

2 packages Red Star Special Active Dry Yeast
1¾ cups warm water (105° to 110° F.)
¼ cup sugar
1¼ teaspoons salt
1 egg
3 cups sifted all purpose flour
1 cup raisins
¼ cup chopped citron
1 teaspoon cinnamon
2 tablespoons shortening, melted and cooled to lukewarm

Step 1: Dissolve yeast in warm water (105° to 110° F.) in large mixing bowl. **Step 2:** Add sugar, salt, unbeaten egg, flour, raisins, citron and cinnamon. Beat well with electric mixer on low or medium speed, or by hand with large wooden spoon. Add shortening, beating until thoroughly mixed. **Step 3:** Spoon dough into well greased muffin pans, filling about one-third full. **Step 4:** Let rise in warm place (90° to 95°F.) until dough has risen level with top of muffin pans (about 25 to 30 minutes). **Step 5:** Bake in moderately hot oven (375° to 400° F.) 20 minutes. **Step 6:** Remove from pans and glaze with thin powdered sugar icing. When cool, make a cross on each with plain icing. Yields 18 to 24 buns.



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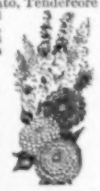

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Bet Jimmy gets the blame for it! He hands an apple from the cupboard to his sister Janet. Judy already has hers. They are the children of Mr. and Mrs. Pat Adamson, of Greene county, Iowa.

Not Too Early To Plan Garden

A Johnson County, Iowa, Woman Tells What She Plans To Plant In Her Vegetable Garden

HERE I go, poring over seed catalogs, trying to keep my mental equilibrium. No doubt, I'll tumble for some fancy new vegetable introductions, but if I can control myself my main order will be about the same as last year.

Maybe our household is in a rut, for we have pretty rigid eating habits. There are some vegetables we like so well that we could eat them every day. Others we avoid, even when the garden's full of them.

Our favorite lettuce is Oakleaf. We plant it thickly, and start eating when it's quite small. It can't make its crisp little crinkled heads unless it is thinned, so we attempt a thin-as-you-eat process.

We've found that young plants transplanted to another row mature later, thus lengthening the season. Seed sown in late summer takes advantage of autumn rains to make a wonderful fall crop.

Fall-sown seed (on purpose, or dropped from plants that have gone to seed) produces extra-early spring lettuce.

For peas, we'll still take Little Marvel. They're so dependable, and so satisfactory in the locker. We make about three plantings at 10-day intervals. Only one planting is considered "main crop"—and it's a whopper.

Snap beans are truly a snap! We scoff at books that warn not to plant them "until danger of frost is past," and we gamble on one extra-early row.

That goes in when we plant the main crop of peas. More often than not they survive. Besides a couple of plantings for summer, we always start a late row for September eating.

Our lima beans amazed us last year. What a crop! Bushels and bushels! The most productive we have ever had. But we don't know the cause.

We used Fordhook 242, a large-seeded bush type reputed to yield under adverse conditions. These big, fat fellows are so much easier to shell than the tiny Henderson bush type. They mount up faster when you're preparing them for the freezer, too.

The season's harshest lesson was learned in our sweet corn patch. Most of it matured while we were on our vacation!

There was no excuse for such an error. We knew the dates when we would be gone; the catalog from which we ordered the seed gave the number of days from planting time to expected harvest.

As with peas, we like to specify one unit of sweet corn as "main crop"—the one to be put up for winter. All the members of the family are willing to cooperate once or twice in a grand whoop-tee-do emergency.

Preceding this crop for the locker, we plan one extra-early and several before-and-afters. Most of these are planted on one day, selecting early and late maturing varieties. Of course, the planting for autumn eating is handled separately. Golden Cross bantam is a favorite.

Any way to hurry tomatoes into production would get a big cheer from us. Usually, we buy a few large, husky, greenhouse-started specimens to start the ball rolling.

Altho we've started plants indoors, and coddled them before and after transplanting, they've never seemed to do as well as those of a neighbor. She's had wonderful success starting her seed outdoors.

Putting several seeds in each hill, she covers them with a hot-kap. That makes a miniature greenhouse or cold-frame. The plants germinate quickly, and grow rapidly, too. Their hot-kap isn't removed until the plants are trying to stick their heads thru it.

By that time, the weather is settled. If more than one plant per hill has survived, the extras are transplanted. — Gretchen Harshberger, Johnson County, Iowa.

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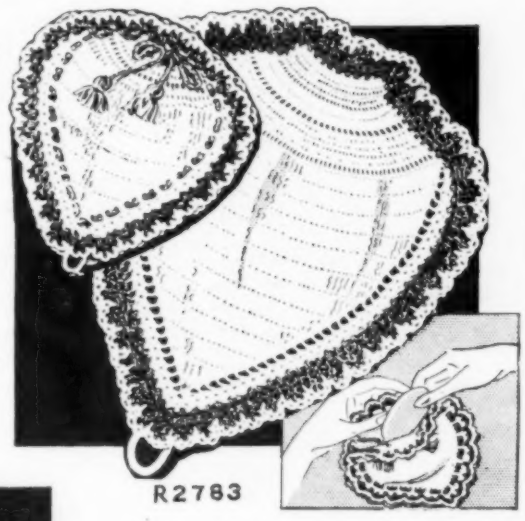

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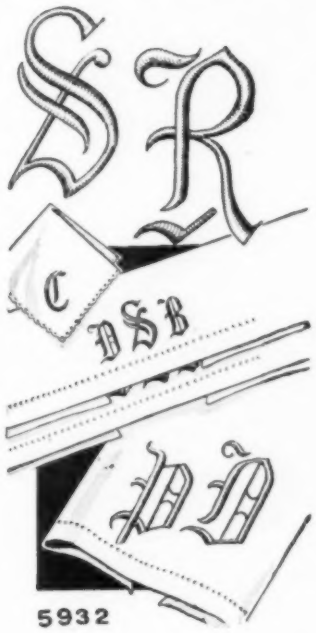

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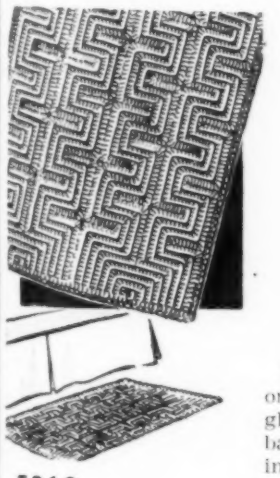

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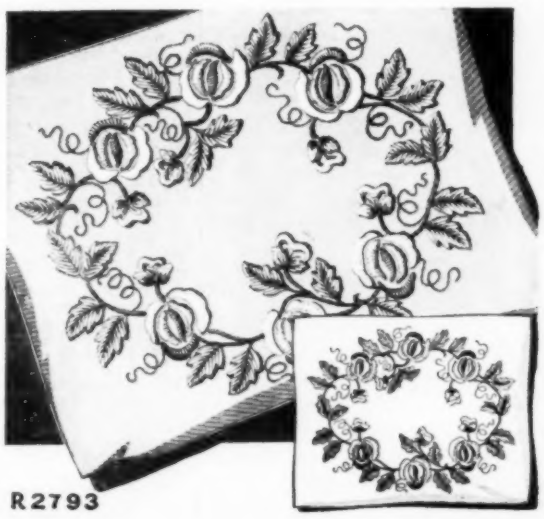

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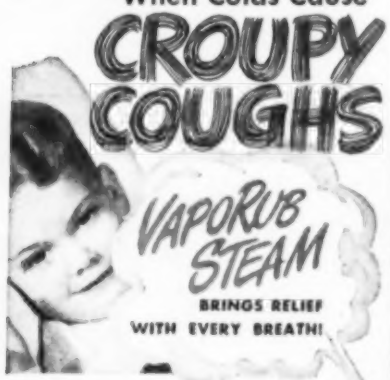

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about a business of your own and earnings according to your ability! We will furnish you a stock of 140 personal, home and farm necessities on credit to sell in your locality. You pay low wholesale prices when goods are sold. Products guaranteed to give 100% satisfaction. Bargain sales, premiums, free advertising aids help you make quick, easy sales. Experience unnecessary. We send Sales Guide book, other helps. Business established 92 years. Mail penny postcard for full details. The Ward Company, Dept. WF, Winona, Minn.

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HOT WATER IN FIVE MINUTES
For baby's bath, your washing, shaving and many other uses in the home, camping, business or on the farm.
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Buy a Bond Today!

Farm Bureau Party

Eden Township, Clinton County, Iowa, Holds Its Annual Holiday Get-Together

Every year, the members of the Farm Bureau in Eden township, Clinton county, Iowa, hold a holiday party. The members and their families meet in the home of one of their members for an evening of fun and refreshments. This year, the hosts were Mr. and Mrs. Bennie Swanson. Everybody played "500" and visited as they played.

Later, they had lunch. Everyone brought something, and there was more than enough to go around. Here, Dean Young carefully balances his ice cream and cake, while his mother, Mrs. Gene Young, watches anxiously.

The kids took over a couple of rooms for games of their own. They made a lot of noise and had a wonderful time. As far as they are concerned, their folks could have a party like this every week. The "old folks" think so, too.

Fresh Fish

Fresh weather frozen fish, the best clear water, good eaters, every fish has passed a rigid inspection for quality and we guarantee the shipment to arrive good at your "EXPRESS DEPOT." Fish are more reasonable than ever before. Make up an assortment today of these fine varieties that will please the most particular cooks. Check the kinds you want or mail separate letter. Please include ad and we will ship promptly C.O.D. or you may remit with your order.

OUR POPULAR ATLANTIC OCEAN SPECIAL
Enjoy these assorted varieties for your Lenten meals. Packed for storing in freezer locker, cello wrapped in 1 lb. packages, separately in 10 lb. boxes. Absolutely ready for pan. Easy to cook, just fry them slowly in deep fat.
20 lbs. white fish steaks, 20 lbs. pike steaks, 20 lbs. perch steaks, 20 lbs. haddock steaks, all 80 lbs. **$22.00** or ½ order **$11.50.** If any varieties do not appeal to you, you may omit same and add the kinds you like better.

NORTHERN LAKE SPECIALS
25 lbs. gutted wall eyed pike, 25 lbs. gutted northern pike, 25 lbs. gutted white fish, 25 lbs. gutted lake trout, all 100 lbs. fish **$30.00** or ½ order **$15.00.**

ALASKA GEM SPECIAL
30 lbs. flounders, 30 lbs. salmon, 40 lbs. chicken halibut, all headless, scaled, gutted fish for steaking, 100 lbs. **$38.00** or ½ order **$17.50.**

BOX LOTS SPECIAL
50 lb. box 5 by 10 our famous bullheads, all cleaned, ready for pan **$14.00** or **$3.00** per box. 100 lbs. silver herring **$6.50**. 100 lbs. gutted herring **$8.00**, 100 lbs. suckers **$7.00**, 100 lbs. scaled, headless, gutted and large mud carp **$13.00**. 50 lbs. Lake Michigan smelt **$6.50**. 50 lbs. northern pike **$7.00**. 50 lbs. wall eyed pike **$13.00**. 50 lbs. headless, gutted northern pike **$9.00**. 50 lbs. box, pan sized tullibee white fish **$8.00**. 50 lbs. 5 by 10 cello-wrapped flounder (Sole) fillets these are a real treat **$17.50**. 50 lb. box boneless blue fin, cello-wrapped **$11.00**. 50 lb. box northern pike fillets **$15.00**. 50 lb. box cello-wrapped wall eyed pike fillets **$26.00.**

OVEN FRESH SMOKED FISH
Ready to eat for a delicious quick meal or lunch. If ordering by parcel post add 40c postage.
10 lb. box smoked fat buffalo chunk **$4.50**. 10 lb. box fat chunk carp **$3.00**. 10 lb. box fat chunk white fish **$3.90**. 10 lb. box fat chunk Quebec eel **$5.00**. 5 lb. box fat chunk salmon **$3.50**. 5 lb. box fat chunk smoked trout **$3.50**. 10 lb. box fat whole white fish **$4.50**. 10 lb. box smoked fat lake chubs **$4.50.**

SPECIAL
10 lb. box smoked bluefin **$1.75**. Order as much as you like of these varieties. We can send direct to your locker plant. Frozen fish must be ordered by express. Smoked fish may be ordered by parcel post. Order with confidence from your friendly fisherman, from a large fish producing town on the lake in Wisconsin.

LESTER FISHER FISH CO.
LICENSE NO. 41 MARINETTE, WIS.

FISH PRICES REDUCED

LENT BEGINS MARCH 2
LOAD UP — PRICES DOWN
On All New Winter-caught Fish

Frozen on the ice, none finer. Deduct 1c per lb. on orders of 100 lbs. or more off 50 lb. price.

SALT FLAT LAKE HERRING	100 lb. bbl.	$16.50
STEAK COD	50 lbs.	10.00
CATFISH	50 lbs.	15.00

HERRING, Round, 100 lbs. $9.00; Dressed, 100 lbs. ...$12.50
SILVER, FANCY PAK, LARGE, Packed in 50 lb. boxes.

SHEEPHEADS (White Perch)	50 lbs.	6.50
CARP, Round, 100 lbs., $6.00; Dressed, Headless	100 lbs.	12.00
MULLETS, Large (Suckers)	50 lbs.	4.00
LAKE TROUT or Whitefish, Drsd.	50 lbs.	19.50

NORTHERN PIKE SPECIAL (PICKEREL) 60 lb. Box $9.00; 5 Boxes, 300 lbs. $43.95

WALLEYE PIKE, Round, Small	50 lbs.	10.50
WALLEYE PIKE, Baby, Headless and Dressed	50 lbs.	14.00

Boneless ready to fry OCEAN PERCH, OCEAN PIKE, HADDOCK, COD. All cellophane wrapped, your choice, 10 lb. carton ... $ 2.50

SMELT (Famous Green Bay Silver) Special	50 lbs.	8.00
SALT HOLLAND HERRING, Imp.	9 lb. Keg	2.20
SMOKED FAT BLUEFINS	10 lb. Carton	2.00
SMOKED SALMON CHUNKS	10 lb. Carton	4.00
SMOKED WHITEFISH	10 lb. Carton	3.50

Delicious, guaranteed fish. Your friendly fish shipper for 36 years. EAT OUR FISH.

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40 years' experience in the treatment of arthritis, neuritis, sciatica, lumbago and gout, Hypertension (high blood pressure), Hypotension (low blood pressure), Dermatitis (Eczema and Psoriasis). Also Obesity. Separate Departments for men and women. Two Resident Physicians. On U. S. Highway 212. Tel. Shakopee 123.

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Sensational introductory offer! Send snapshot or negative, this ad, and 10c. We'll send you a beautiful 7x5" enlargement! Or, Kodak roll developed and printed (with free coupon) only 25c; or 8 giant prints from roll, 30c. Reprints from negatives—any quantity—regular size, 3c; Giant size, 4c. Satisfaction guaranteed. Immediate delivery. No delay. Write for Free Mailers, Free Premium offers. AMERICAN STUDIOS, Dept. 342, LaCrosse, Wis.

Send for this FREE BOOK on
RHEUMATISM
ARTHRITIS • NEURITIS • SCIATICA

If you suffer the agonizing pains of these diseases when the usual remedies have failed, learn about a specialized system proven for treating. This marvelous treatment is completely explained in the Ball Clinic's

FREE BOOK. *No Obligation. Write Today.*
Ball Clinic, Dept. 40, Excelsior Springs, Mo.

"—NO MORE UPSET STOMACH"

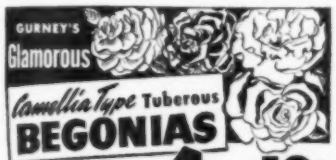
Do you suffer heartburn after meals?...feel logy? ...uncomfortable? Then read this heartening letter from a woman who found her way to *better digestion* and *better health:*

"Before switching to POSTUM, I suffered both indigestion and nervousness... But now my nerves are quieted and my digestion much improved. No more upset stomach after drinking POSTUM!"

SCIENTIFIC FACTS: Both coffee and tea contain caffein, and caffein is a drug which in many persons tends to produce *harmful stomach acidity*, as well as *nervousness* and *sleepless nights*. So while many people can drink coffee or tea without ill-effect, others *can't*—and this may mean YOU!

MAKE THIS TEST: Give up coffee—give up tea—drink POSTUM exclusively for 30 days—and judge by results! Remember: POSTUM contains no caffein or other drug—nothing that can possibly cause indigestion, nervousness, sleeplessness! Ask your grocer today for INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

GURNEY'S Glamorous *Camellia Type* Tuberous BEGONIAS



Grow Indoors or Out 4 colors for 10¢

Raise these glamorous big Camellia-type Begonias in window boxes or moist, shady spots in your garden. You'll agree they're about the prettiest flowers you've ever seen. Just send 10¢ today for Begonias and we'll include our new catalog and Free subscription to Gurney's Planting Guide. Mail your 10¢ to:

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NEW BUSH CHERRIES

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Before You Move

Send Us Your Change of Address

If you are about to move be sure to send THE WALLACES' FARMER AND IOWA HOMESTEAD both your **OLD** address and your **NEW**, so that you will not miss any copies of the paper. Notify us at least two weeks before you move.

WALLACES' FARMER and IOWA HOMESTEAD
Des Moines, Iowa

Hard To Go To New School

DEAR EDITOR: Nature's farming cycle may make March 1 the right time for moving, but the date comes at a difficult time of the school year.

It is often an upsetting experience for the small fry, and for the more timid may bring about a severe drop in grades and in self-esteem.

Mother can make easier this leaving dear friends to face a school-room of strangers. Take great pains to explain that all will soon become familiar, and soon they will have new chums.

Before we moved last year, I tried to pick up every bit of information that I could about the studies, the ways of dress, and whether hot lunches were served.

Our children had always gone to country school, and now they were being changed to a school in town. They would have to ride a bus several miles.

Thank goodness, we found it was the custom for grade boys to wear overalls as they had in country school. They would need gym shoes, or else they couldn't play in the gymnasium.

That first day in the new school, I was tempted to "tag" along. I remembered exactly what an ordeal I went thru that day I had started to town to high school. I had gone to country school for eight years.

At the time, our fourth-grader was an honor student—even on the county honor roll—so it was with much bitterness we viewed those C's and even a D or two on her first report card.

She was an unusually bold little girl, and an easy mixer, but we finally discovered the reason for the low grades. She was too busy viewing this new world; in fact, she was taking too much interest in everything but her books.

Moving can bring about an emotional upset that needs care and attention just as physical illnesses do. — Mrs. L. B., Jones County, Iowa.

Charter Member Of Daughters Of Ceres

DEAR EDITOR: In your issue of January 15, you showed pictures of the Daughters of Ceres celebrating the 50th anniversary of their organization. You note that when the original group was organized, Mrs. Henry Wallace conducted the ceremonies.

Mrs. Charles W. Stewart, of Polk county, Iowa, was elected president. Mrs. Stewart now lives here in Redding (Ringgold county), at the home of her son, Maynard La Mond.

After Mrs. Stewart left the farm and moved to Des Moines, she entertained the Daughters of Ceres frequently in her home. She was president of the group for six consecutive years, and has the first club book with the original members listed.

"Aunt Mary," as she is known here, had her 94th birthday January 4. So the club does have a charter member living.—Mrs. Maynard La Mond, Ringgold County, Iowa.

TO YOUR FOOD BILLS

EVERY PACKET GUARANTEED

1. LABORATORY TESTED to assure high germination.
2. GARDEN TESTED to search out the really better varieties.
3. TABLE TESTED to assure you tenderer, finer flavored vegetables.

This is the year to have a "grocery store garden." It will pay you. In more ways than one! Your family will enjoy an abundance of finer, fresher foods. Your cost will be only a fraction of what you would have to pay if you bought it. The way to bigger yields of the really better varieties is to plant Earl May Triple-Tested Seeds. EVERY PACKET GUARANTEED.

AT YOUR LOCAL DEALERS OR NEAREST EARL MAY STORE

EARL MAY SEED CO. SHENANDOAH, IOWA

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A Ruud Automatic Gas Water Heater, plus Rapid Gas or Thermogas, brings you all the hot water you want . . . when you want it!

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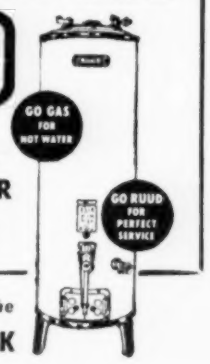
Featuring the Famous RUUD Automatic GAS WATER HEATER



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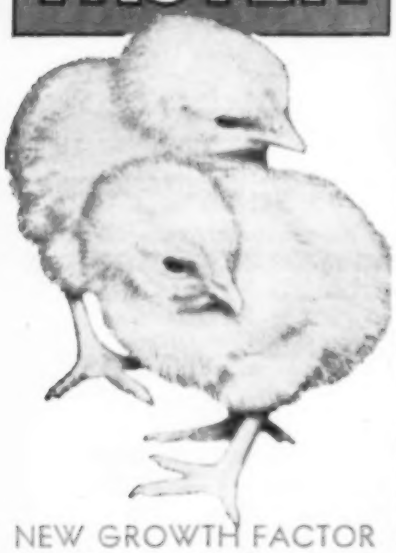
For your nearest Rapid Gas or Thermogas Dealer, write to 2200 A Street S. W., Cedar Rapids, Iowa

STARTS CHICKS TO 20% FASTER



NEW GROWTH FACTOR GIVES AMAZING GAINS

Up to 20% faster growth in starting chicks. Less feed cost per lb. of gain. Low mortality!

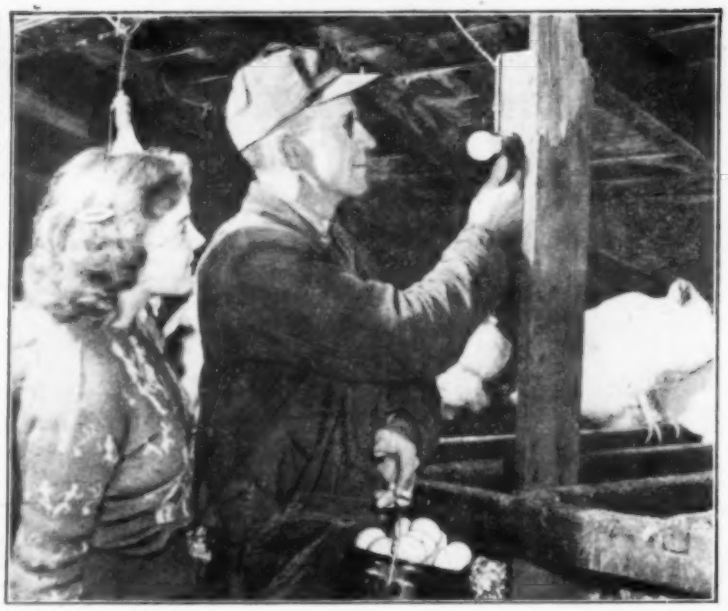
These are the amazing results of feeding tests with new, growth-fortified Sargent MultiRich Starter—now enriched with fish and whey solubles for added vitamins and growth factors. In test after test, Sargent Starter with these new growth solubles, speeded chick gains up to 20% and more above old-type Starter—cut feed costs, outdid anything we've ever seen. So sensational are the results that we make this unqualified guarantee. Try a bag of growth-fortified Sargent Starter, and if it doesn't give a faster, better start than old-type Starter not containing these growth factors, we will refund the cost of the trial bag in full. Ask your dealer today, or write for free circular.

Further Enriched with A. P. F. (Animal Protein Factor.)

Sargent MultiRich Starter

TRY SARGETTES—BITE SIZE CRUMBLES

SARGENT PLANTS, Des Moines
Monmouth, Ill. Fremont, Nebr.
Waverly, Mo. Algona, Iowa



Automatic lights have boosted egg production for Lloyd Burns, of Union county, Iowa. Lloyd and his daughter, Marilyn, check the switch that has helped get 90 eggs per day from 160 hens.

THE FARM FLOCK

"JUNIOR LAYING FLOCK." That is the prize-winning name in a contest to replace the expression, "all-pullet" flock." J. K. Parks, vocational agriculture teacher at Farmington, Ill., and H. L. Crow, a Sedalia, Mo., produce dealer, shared the $100 prize offered by Institute of American Poultry Industries.

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IDEA BEHIND CONTEST was to clear up confusion over the term "all-pullet" flock." Some folks thought it meant they should buy sexed pullet chicks only—no cockerels. Actually, it was intended to mean laying flocks made up of pullet layers only—no old hens.

▲ ▲ ▲

WHETHER YOU CALL IT "junior laying flock" or "all-pullet flock," the idea of clearing the old hens out of the house and filling up with pullets is a good one. Combined with a good house-cleaning, it's the easiest way to break disease cycles. When you house hens and pullets together, the healthy pullets pick up any germs the hens might be carrying.

▲ ▲ ▲

HIGH BLOOD PRESSURE has been generated to a degree by our recent report on Purdue University's "over 300—or 30" idea—meaning that poultrymen should keep a big flock or a tiny one. The way we told the story, it sounded as if nobody could keep a flock of 100 to 200 without going broke.

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THAT ISN'T WHAT the Purdue poultrymen meant at all. They recognize the fact that medium-sized flocks can be profitable on a per-hen basis. (For an example, see page 55). But Purdue also believes that folks with bigger flocks are more likely to have better housing and equipment, buy better chicks, use more labor-saving ideas, and follow good management practices. These are the things that boost the return per hour of work put in with poultry.

▲ ▲ ▲

HENS DON'T lay dirty eggs. They get that way, says J. E. Boyd, of South Dakota State College, because they aren't gathered often enough, because there aren't enough nests, or because the litter is not kept dry. One produce buyer estimates that many poultrymen lose as much as 12 cents a dozen only because the eggs are dirty and must be graded lower.

▲ ▲ ▲

HOW CAN YOU CLEAN dirty eggs without lowering their market value? Just a little dirt on just a few eggs can be removed easily with an egg sander. Black emery cloth stretched over a piece of sponge rubber on a stick will do the job. Fine sandpaper or steel wool also work well.

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IF YOU HAVE A LOT of dirty eggs, you may want to wash them. Here's the system recommended by South Dakota State College: Put the eggs in a wire basket and soak the whole basket in a mixture of hot water (140 to 160 degrees) and detergent (soapless soap). Soak the eggs just a couple of minutes. Then, when the dirt is soaked loose, wash it off by pouring or spraying warm water over a basketful. Let the air dry the eggs thoroly. Don't use cold water—it will draw dirt and bacteria into the egg.

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BUT DON'T WASH EGGS until you've checked with your produce dealer. Chances are he won't ock you for washed eggs if he knows which they are. There is some evidence to show that even carefully washed eggs won't keep quite as long in cold storage as will unwashed ones. So play fair with your dealer and tell him about the washing. That way, he can put washed eggs into immediate consumption channels where they will be just as good as any others.

▲ ▲ ▲

START DEEP LITTER for chicks with about three inches of crushed cobs, shavings or other non-matting material. Add new litter as needed and stir frequently. Don't clean the house during the brooding period. Be sure to keep litter around brooder and waterers stirred and dry.

Wonderful Results

Raising Baby Chicks

Mrs. Rhoades' letter will no doubt be of utmost interest to poultry raisers. Read her experience in her own words: "Dear Sir: I think I must be one of the very first to use Walko Tablets. Some 35 years ago when I started raising chicks I saw Walko Tablets advertised as an aid in preventing the spread of disease through contaminated drinking water. I tried a package for my baby chicks with happiest results. I have depended upon Walko Tablets ever since." Mrs. Ethel Rhoades, Shenandoah, Iowa.

You Run No Risk

Buy a package of Walko Tablets today at your druggist or poultry supply dealer. Use them in the drinking water to aid in preventing the spread of disease through contaminated water. Satisfy yourself as have thousands of others who depend upon Walko Tablets year after year in raising their baby chicks. You buy Walko Tablets at our risk. We guarantee to refund your money promptly if you are not entirely satisfied with results. The Waterloo Savings Bank, the oldest and strongest bank in Waterloo, Iowa, stands back of our guarantee. Sent direct postpaid if your dealer cannot supply you. Price 50c and $1.00; breeders sizes $2.50 and $4.00.

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HYGENO IS ECONOMICAL!

One bag covers 100 sq. ft.—AND can be used over and over.

This ECONOMY feature is just one of the SIX FEATURES that make HYGENO POULTRY LITTER the best on the market!

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Boote's

Chicks—Famous For Egg Production

Get Boote's Chicks—bred from high producing strains. Prices $4.00 per 100 and up—3 weeks guaranteed livability. Popular breeds. U. S. Approved and Pullorum Controlled. Eggs hatched in modern sterilamp-protected hatchery. Chicks carefully sorted and promptly shipped. 100% live delivery. Boote's 22 years of experience is your assurance of satisfaction. Order Now! Free catalog.

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CHICKS THAT LIVE

Plus 2-Wk. Replacement Guarantee. U. S. Approved Pullorum Controlled. Best Breeding Foundation.

BABY CHICKS	St.	Run	Pullets	Cals.
Wh. and Brd. Rocks, Reds, New Hamps, Buff Orpingtons	$12.70	$16.70	$11.70	PER 100 PREPAID
White and Brown Legs, Austra-Wh.	$12.70	$20.70	$3.70	
	$12.70	$20.70	$7.70	PER 100 PREPAID
Heavy Asstd.	$9.90	$13.90	$8.90	
Light Asstd.	$9.90	$14.90	$3.70	
Heavy Breed Broilers			$7.90	

WRITE FOR PRICES ON
STARTED CHICKS
2 TO 4 WEEKS OLD
NOLD Hatchery, Box 26-L, Montrose, Mo.

BIG EARLY ORDER DISCOUNT ROP Bloodlines
You can save up to $3.00 per 100 on **CHICKS** Shipped before March 20

New Hamps, Hamburgs, Wh. Rocks, Black Giants, Wh. Leghorns, Brown Leghorns.

Started Pullets

Send post card for FREE Catalog and low prices. 48 hr. nation-wide shipping service. U. S. Approved—Pullorum Controlled. Orders Filled Promptly.

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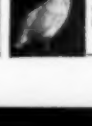

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Dept. A-1 Goshen, Indiana

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Perch, Caught from Local Lakes.....25c lb.
Halibut.....30c lb.
Halibut Trimmings.....15c lb.
Red Salmon.....40c lb.
Yellow Pike, Dressed.....35c lb.
White Fish, Dressed.....30c lb.
Rock Bass.....25c lb.
Bullheads, Skinned Jumbo.....30c lb.
Pike Caught from Local Lakes.....25c lb.

SPECIAL

Jumbo Smelt—Packed 10 lb. cartons...26c lb.
Scallops—Packed 1 lb. cartons.....60c pkg.
Oysters, Stewing—Packed in Pints....60c pt.
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Gorton's Cod Fish, Salted—12 lb. ctns..45c lb.

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Packed 10 lb. Cartons
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Packed 5 lb. Cartons.....$2.25 ctn.
Blind Robins (10 lb. ctns.).....3.25 ctn.

FROZEN FRUITS—Sweetened

Apricots—Packed 10 lb. ctns.....18c lb.
Pineapple—Packed 4 lb. ctns.....20c lb.
Peaches—Packed 10 lb. ctns.....18c lb.
Grapefruit Juice (Unsweetened), 2lb. ctns.....12c lb.
Strawberries—Packed 6½ lb. tins....38c lb.
Black Cherries—Packed 1 lb. ctns....22c pkg.
Prune Plums (Unsweetened) 12 oz. ctns.....14c pkg.
Pineapple, Crushed—1 lb. ctns.....23c pkg.
Peaches—Packed 1 lb. cartons.....25c pkg.
Cantaloupe or Honey Dew Balls (Unsweetened)—Packed 10 oz. ctns...25c pkg.
Sliced Apples—Packed 30 lb. tins....12c lb.

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Asparagus Cuts and Tips—2½ lb. ctns.....39c lb.
Broccoli Cuts—Packed 5 lb. ctns.....24c lb.
Brussels Sprouts—Packed 2 lb. ctns...38c lb.
Lima Beans.....35c lb.
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Spinach—Packed 2½ lb. ctns.....23c lb.
Asparagus Spears—12 oz. packages...45c pkg.
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Mixed Vegetables—12 oz. packages...20c pkg.
Broccoli Spears—10 oz. packages....26c pkg.
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All stock guaranteed. Send check or money order with your order.

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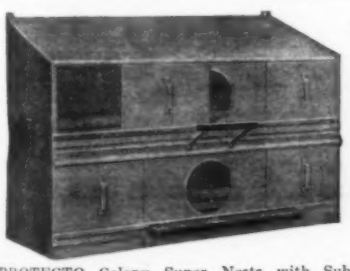
THE NEW PROTECTO COLONY NEST

The Newest and Best in a Laying Nest



PROTECTO Colony Super Nests with Sub-Sections attached guarantee complete satisfaction. Made of 24 and 26 ga. Prime Galvanized Steel. Features . . . Sliding Front Doors . . . Inclined Top . . . Hinged Cleaning Doors . . . Redwood Perches . . . and Many Others. Illustration shows One Super-Section and One Sub-Section attached with a capacity of two 10-hole Group Nests. Second Sub-Section may be added to illustration increasing capacity to three 10-hole Group Nests. Wall space required only 48 inches. COST at least ⅓ less than Group Nests of equal capacity. Less crowding eliminates breakage and guarantees Cleaner Eggs. Can be shipped freight or express. Dealer inquiries invited. If your dealer cannot supply you write direct.

PROTECTO MFG. CO., OWATONNA, MINN.

For Joyful Cough Relief, Try This Home Mixture

Saves Big Dollars. No Cooking.

This splendid recipe is used by millions every year, because it makes such a dependable, effective medicine for coughs due to colds. It's so easy to mix—a child could do it.

From any druggist get 2½ ounces of Pinex, a special compound of proven ingredients, in concentrated form, well-known for its soothing effect on throat and bronchial irritations.

Then make a syrup by stirring two cups of granulated sugar and one cup of water a few moments, until dissolved. It's no trouble at all. No cooking needed. Or you can use corn syrup or liquid honey, instead of sugar syrup.

Put the Pinex into a pint bottle and fill up with your syrup. This makes a full pint of cough medicine, very effective and quick-acting, and you get about four times as much for your money. It never spoils, and children love its pleasant taste.

You'll be surprised by the way it takes hold of coughs, giving you quick relief. It loosens the phlegm, soothes the irritated membranes, and helps clear the air passages. Money refunded if it doesn't please you in every way.

U. S. APPROVED, PULLORUM PASSED CHICKS. Rocks, Wyandottes, Hampshire-Reds, Red Rangs, White, Brown, Buff Leghorns, Anconas, Austra-Whites. Heavy Assorted $8.95. Lights $6.95. Leftovers $5.95. Leghorn Cockerels $3.95. Collect. Get complete prices. SADIE STOUFFER HATCHERY, Waddams Grove, Illinois.

When writing to our advertisers, please mention that you read their advertisement in Wallaces' Farmer and Iowa Homestead.

Why Do Extra Work?

"WHO Wants 30 Hens?" asked Mrs. L. B., of Jones county, Iowa, in our issue of February 5. She took a slap at the suggestion of some college poultrymen that farmers should either get in or out of the chicken business—should raise 300 birds or 30.

Mrs. L. B. defended her flock of 128 hens, even tho raising them with poor equipment required "back-breaking labor."

In the letter below, a Page county, Iowa, reader has some advice for Mrs. L. B.

To the Editor: Mrs. L. B. states that her chicks were raised by back-breaking labor. Now, really, I think that is stretching the point, considering her small flock.

I was born and raised in town, and knew nothing of chicks until I was married. I have raised chicks ever since—enough to house around 360 hens each year—and think chicken work is about what you make it.

Perhaps using the old granary for a brooder house could not be helped. Brooders are high, I know, as we had to get a new one recently. But we felt it was well worth what it cost, because there is no varmint loss.

Mrs. L. B. says she used a few tin feeders and one two-gallon waterer. Water is just as important as feed and should be supplied amply.

If she invested in larger fountains, she wouldn't have to be "carrying water" all the time. Once a day would do the trick.

Feeders are also very inexpensive. And there should be enough so that filling twice a day, or even only once, is adequate. With better care, the chicks probably would do better, and the profit would pay for the extra equipment.

She probably couldn't help the hen house on a rented farm. But inexpensive tar paper and lath, plus some elbow-grease, would greatly improve the warmth of even an old house.

I would have been ashamed to admit there were only four nests in my hen house. At least, I'd rustle around and get some kind of wooden boxes for nests, so the poor hens wouldn't have to stand in line to lay, and egg gathering would not be a constant chore.

Granted she wants to keep her 128 hens—and I don't blame her a bit. But why not make those few inexpensive improvements to ease the work and help the profits along? — Mrs. D. Y., Page County, Iowa

"Let 'em sock that!"

get 14 days earlier egg profits

by starting your chicks right with

DR. SALSBURY'S Ren-O-Sal TABLETS in the drinking water

Helps You Grow Better Birds That Mature Quicker—Lay Earlier

Get new, early egg profits from your 1949 flock. Put handy Ren-O-Sal Tablets in your chicks drinking water right from the start. Dependable. Preferred by leading poultry raisers for these TWO-FOLD profit-making benefits:

EARLIER EGG PROFITS. Ren-O-Sal promotes faster growth, quicker maturity. You get 14 days earlier egg production, when egg prices are higher. Test-proved, using ordinary feeds.

Also CONTROLS COCCIDIOSIS at low cost (in larger doses)

In larger doses, Ren-O-Sal PREVENTS SPREAD OF CECAL COCCIDIOSIS *at lower cost*. Generally less than one cent per bird. Has prevented costly chick losses in thousands of flocks. Treat at first sign of an outbreak.

Yes, enjoy new flock profits. Ask your hatchery, druggist or feed dealer for Dr. Salsbury's Ren-O-Sal, today.

When you need poultry medicines, ask for

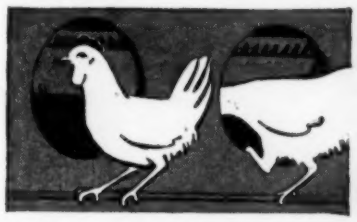
DR. SALSBURY'S LABORATORIES
Charles City, Iowa

Dr. SALSBURY'S

Keep Your Laying Flock Profitable

Dr. SALSBURY'S **Avi-Tab**

Special Drug Formula



Watch for birds that "don't do their best." Avi-Tab has helped many such birds in thousands of flocks. See birds "perk up." Combs and wattles become redder. Low cost. Easy to use in mash. Avi-Tab is packaged for every size flock. For a more profitable flock, buy Dr. Salsbury's Avi-Tab, today. See your local hatchery, drug or feed store, now. Dr. Salsbury's Laboratories, Charles City, Iowa.

GREATER PROFITS WITH

Ames In-Cross 301 Chicks

Bred on the same principles used in producing HYBRID CORN. Poultry raisers say: "We have never had chicks as good as these." "We get more eggs than we ever did before." "Ames In-Cross 301 Chicks live better." Here's why: Ames In-Cross 301 Chicks produce more eggs—have a longer laying period—egg quality is higher because of uniformly large size, smooth shell texture and fewer blood spots — fewer culls and less death losses—the cost for feed per dozen eggs is lower.

See your authorized Ames In-Cross Hatcheryman or write

Ames In-Cross, Inc.
AMES, IOWA

HIGHEST CASH PRICES PAID
For New Goose and Duck Feathers
Send yours to an accredited house. Send sample for price on old feathers. Cash 24 hours later.
WEST CHICAGO FEATHER CO.
4456 W. Fillmore Chicago, Ill.

LUX R. O. P. Leghorns

Iowa-U.S. Certified Chix and Eggs. 20,000 daughters and granddaughters of our ROP hens with records of 200 to 332 mated to ROP males from hens with records of 300 to 354 eggs. 25 years breeding experience. Iowa's largest ROP Leghorn Breeding Farm. Catalog.
Lux Leghorn Land Farms Hopkinton, Iowa

ZEELAND Hatchery POULTS

Amazing profits with Hamilton Strain super-Broad Breasts. Growers report 18 pound hens, 28 pound toms at 5½ months. Make 1949 your banner year—raise these super broad breasts for extra profits. Also Wagon Wheel strain broad breasts, White Hollands and all other breeds. Poults available for immediate and future delivery. Write
ZEELAND HATCHERY ZEELAND, MICH.

WHITE LEGHORNS

Rocks, Reds, Orpingtons, Wyandottes, Minorcas, Austra-Whites. Assorted. Low as $4.95 per 100.
$12.90 Per 100 Prepaid
Also Sexed and Started Chicks
FREE CATALOG explains two-week replacement guarantee. U. S. Approved. U. S. Pullorum Controlled. R.O.P. Foundation Breeding
SCHLICHTMAN HATCHERY Appleton City, Mo.

Raise Early Chicks This Year

Chicks available in all popular breeds and crossbreeds. Low prices for January, February Delivery. Inquire today. Beautiful 4-color catalog free. Write
ZEELAND HATCHERY ZEELAND, MICH.

Give 'em the RIGHT start!

Rely on Hilltop's K-M to help you start your chicks right!

K-M, "The Poultryman's Standby" is just what your chicks need. Our laboratory and farm tests show that chicks given K-M daily drank 13% more water . . . ate 15% more feed and gained 20% more weight when used as directed. K-M kills the germs of Pullorum, Typhoid, Paratyphoid and Cholera in contaminated poultry drinking water. Use K-M in any container. Economical too! One gallon makes 256 gallons full strength disinfected poultry drinking water. Get K-M today.

SAN-A-MOR
Kills Newcastle Virus and most infectious disease germs. Apply by spraying, scrubbing, etc. Non-irritating, non-corrosive, odorless, economical.

PURE-MOR
Disinfects poultry houses and equipment. One quart makes 25 full strength gallons of disinfectant . . . 5 times the germ-killing power of carbolic-acid.

SEE YOUR DEALER TODAY

HILLTOP LABORATORIES
Aids for Poultry

718 WASHINGTON AVENUE N. MINNEAPOLIS 1, MINN.

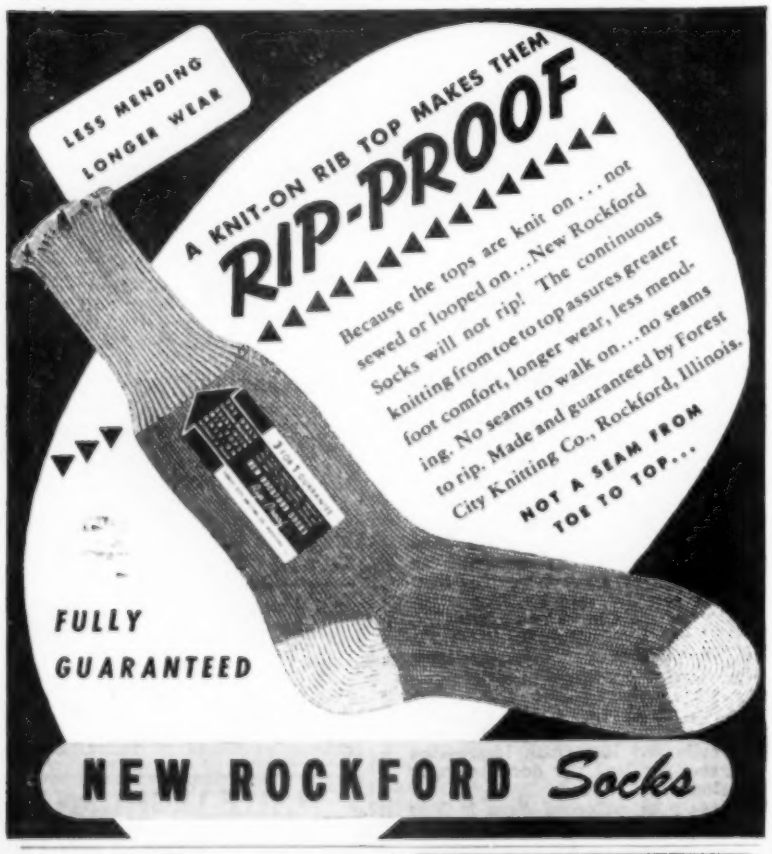
LESS MENDING LONGER WEAR

A KNIT-ON RIB TOP MAKES THEM

RIP-PROOF

Because the tops are knit on . . . not sewed or looped on . . . New Rockford Socks will not rip! The continuous knitting from toe to top assures greater foot comfort, longer wear, less mending. No seams to walk on . . . no seams to rip. Made and guaranteed by Forest City Knitting Co., Rockford, Illinois.

NOT A SEAM FROM TOE TO TOP . . .



FULLY GUARANTEED

NEW ROCKFORD *Socks*

1¢ CHICK SALE

100 Riffle's I. Q. (Inherited Quality) broiler chicks only $1 with 200 our Top Grade Chicks. Popular and rare breeds. Pullets Cornish-Hamps, Austra-Whites, Leg-Hamps, etc. Low prices. Catalog Free. RIFFLE'S CHICKS, Box 403, Shenandoah, Iowa

CROSS & RARE BREEDS TOO

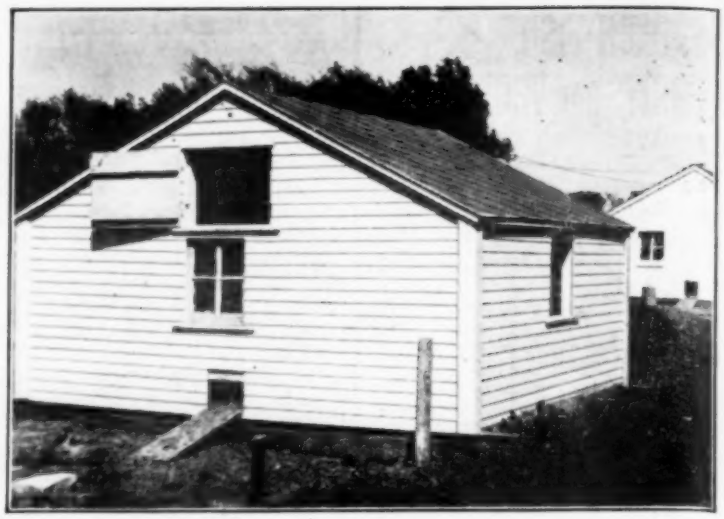
STOUFFER'S FAMOUS CHICKS
Pullorum controlled. Barred, White Rocks, Austra Whites, White Leghorns, New Hampshires, Giants. Catalog free. Immediate delivery.
STOUFFER'S HATCHERY LENA, ILLINOIS

***Choice* TURKEY POULTS**

Send for **FREE CIRCULAR** describing Mixa's Broad Breasted Bronze turkey poults for 1949. Popular medium and heavy strains are available—all scientifically hatched under "hospital clean" conditions. Hatching eggs shipped in from famous West Coast breeding farms are all pullorum clean. Your order is guaranteed for 100% live delivery. Write today to Redwood Falls, Minnesota.

MIXA TURKEY HATCHERY Inc.

—OUR ADS ARE NEWS—



Fewer windows to give better temperature control is feature of Iowa-type brooder houses used by E. J. Schmuecker, Iowa county, Iowa. The Schmuecker pullets averaged 254 eggs in 1947.

Will Your Brooder Do The Job?

Give Chicks The Right Kind Of Housing If You Want Greater Profits From Poultry

If you plan to buy or build a new brooder house—or of you wonder how to improve the one you now have—you will want to read this article by W. R. Whitfield, Iowa State College extension poultryman.

JUST any old brooder house won't do. It doesn't make sense to spend good money for chicks and feed, then throw it away because your brooder house is too cold, too hot or too small.

To be satisfactory, a brooder house should stay warm in winter, cool in spring and summer.

But many brooder houses on Iowa farms are like the untrained housewife who wastes too much—they're expensive to keep. A good brooder stove will provide enough heat, but a poor house can spend it all.

Most brooder houses are too small for the number of chicks they are expected to house. Crowding does so much damage that no excuse justifies too small a house.

How much floor space do you need? That's simple. Just divide the number of chicks you want by two. That's the number of square feet needed for a brooding period of seven to nine weeks. If chicks are to remain for 10 to 12 weeks (broilers or friers), allow an area equal to three-fourths the number of chicks.

Most flock owners think of the brooder house as being movable. But this isn't absolutely necessary. If old birds, contaminated feed sacks and all other disease and parasite carriers are kept away, the brooder can be permanent.

This permits you to put up as large a brooder house as you like—provided all chicks growing in it are of the same age.

What about shape? There are many ideas on this subject. It depends mostly on the size and location of the house. One thing to remember is that a square house saves from one-fourth to one-third in construction cost.

Insulation these days is a "must"—whether your chicks are brooded in winter, spring or summer. For one thing, insulation saves fuel. But, more important, it cuts down on chick losses caused by wide swings in temperature.

Wrong temperatures—too high or too low—cause piling, failure to roost, crowding, colds and other troubles. Good insulation will keep the house at the right temperature in both cold and hot weather.

Window arrangement is more important than many folks realize. As with poor insulation, the wrong window system means drafts and wide ranges in temperature.

First rule is to have the window space divided equally between all walls. This gives good cross-lighting, permits placing of feeders and water fountains over the entire house.

It also means that you need fewer windows. One four-pane window for each 10 feet of wall around the house is plenty. Less window space means better temperature control.

Many brooder houses have too many windows. And putting all the windows in the south wall is the worst mistake of all. They let in the most sunlight just when temperatures are the highest anyway. And they mean a much wider shift in temperature.

Most brooders would be more comfortable in either hot or cold weather if they had just one window on the south and others in east and west ends. Cover extra windows with cardboard, and you will get better results.

A good brooder house costs lots of money. But it's really a small item. In normal times, the average depreciation on a house used for one brood runs about 2 cents per chick per year. Today, it would be nearer a nickel per chick.

Put you're paying from 18 to 60 cents apiece for chicks. And you'll feed each bird about $1.50 worth of feed. A nickel's worth of good housing to protect an investment of $2 or more is money well spent.

WALNUT *Prefabricated* VENSULATED **BROODER HOUSES**

SAVE TIME, MONEY, WORK PROTECT CHICK HEALTH

House your chicks without delay in a Walnut Brooder House. Hundreds of satisfied users. Insulation and controlled ventilation help keep house dry, healthful; promote fast, uniform growth. Assemble sections yourself, quickly, easily into a sturdy, neat, modern building. Ample head room. Save through prefabrication. Order from your Walnut dealer or write direct for free folder.

Address Dept. W.

WALNUT VALUES
- Fast Delivery
- Easy Erection
- Roominess
- Good Quality
- Insulation
- Ventilation
- Fair Prices
- Good Looks

FARM BUILDINGS and HOMES For Every Need

GBH-WAY HOMES, INC. DEPT. W WALNUT, ILLINOIS

WILL YOUR CHICKS LOOK LIKE THIS..

OR THIS

Protect them from dangers lurking in contaminated drinking water

Dr. Jespersen's D.R.D.

Use Dr. Jespersen's D.R.D., the famous drinking water antiseptic in your chicks' water troughs or fountains. Kill those dangerous organisms in the water before they kill your chicks and poultry. D.R.D. Prices—for 300 chicks, $1.50; 600 chicks, $2.75; 1200 chicks, $5.25.

Dr. Jespersen's SANITEM

The NEW and IMPROVED SANITEM. Deodorant and disinfectant. Keeps poultry houses, roosts, equipment sanitary and clean smelling. SANITEM Prices—quart $1.50; gallon $5.00.

SEE YOUR JESPERSEN DEALER

If he is out, to save time we will ship at D.R.D. Prices or at Sanitem Prices direct to you prepaid if check or M.O. with order—or C.O.D. and you pay delivery charges. Attractive proposition for established dealers.

Dr. Jespersen's LABORATORIES Dept. W-31 SPENCER, IOWA

Yes, There's More Money In CAPPER *Started Chicks*

Save Time, Work, Worry

This year get a head start on 1949 poultry profits. Buy early chicks and have eggs and broilers to sell early when prices are high. You can with CAPPER'S started or day-old chicks. One grade only, the best we can produce.

3-Week Old WHITE LEGHORN PULLETS	3-Week Old WHITE LEGHORN BROILERS
PER 100 ..... $33.95	PER 100 ..... $17.00
Delivery to Mar. 15	Delivery any time

STARTED CHICKS SHIPPED EXPRESS ONLY F. O. B. ELGIN, IOWA

3-Week Old WHITE LEGHORN PULLETS PER 100 ..... $36.95 Delivery any time after March 15

CAPPER DAY-OLD CHICKS

These prices good only for delivery before March 15

POSTPAID	PER 100
Straight Run White Leghorns	$12.95
White Leghorn Pullets	$25.95
White Leghorn Males	$ 3.95
Straight Run White Rocks	$13.95

95% Sex, 100% Alive Arrival Guaranteed. All flocks are pullorum tested.

To get these low prices, your order must be received with cash in full not later than March 15th. Prices later $2.00 to $3.00 higher. Order immediately.

CAPPER HATCHERY Route 44 ELGIN, IOWA

Thompson's Famous Chicks

Blood-tested. Barred, White Rocks, Austra-Whites, Leghorns, New Hampshires, Giants give you choice of breeds for egg or meat profits. Flocks improved by use of pedigreed males for 200 to 300 egg hens. As hatched, sexed or started. 100% live delivery, 98% livability GUARANTEED. Write for folder, low prices, special offers today.

TILMER THOMPSON HATCHERY Rt. 102 Elmore, Minn.

WILCOX—Turkeys, Chicks, Ducklings, Broad Breast Bronze, Whites and other popular turkeys. All U. S. Pullorum Tested Stock. All varieties Baby Chicks—from select foundation stock, bred for high egg production, fast growth and meat qualities. Also White Pekin Ducklings for Extra Profits. Get the Wilcox catalog and low price list first. IT'S FREE. WILCOX HATCHERY, Dept. B, Maquoketa, Iowa

Single turkey—a 35-pounder—somehow sneaked by the holiday season on the Carl Quinn farm, Jasper county, Iowa. Now he's a pet, won't lose his head.

Show High Profit On Small Flock

Many poultry experts say a farmer can't make much money on chickens unless he keeps a flock of at least 300 birds.

But Mr. and Mrs. Herbert Buck, Adair county, Iowa, have been able to fit a 102-hen flock into their corn-hog operations and still make an average profit per hen of $2.21.

Good management gets most of the credit. The Bucks keep an all-pullet flock, keep old hens shut up while young birds are being raised on clean ground. Lice and mites are kept under control.

The small Buck flock doesn't take more time than it's worth. Deep litter makes it possible to clean the laying house only three times a year. All feeds—including high protein concentrate, oats and shelled corn—are self-fed, and no time is spent grinding or mixing feed on the farm.

As a result, the Bucks spend only two hours per hen per year. Last year's records show a labor income of $1.29 per hour spent on the flock.

Pullets Seem Hungry For Something

To the Editor: My pullets don't seem to eat much corn or oats, and they don't lay too well. They pick at pieces of paper in my egg pail. They're getting a good mash, oats and corn. Also, they ate 50 pounds of concentrated buttermilk in a week. Will this hurt them any? — Mrs. F. A., Buchanan County, Iowa.

Your pullets are probably lacking something in their diet. Sometimes it takes quite a bit of trial to discover what is missing.

Are you giving them plenty of grit and oyster shell? That may be the trouble. Or you might try adding up to five pounds of bonemeal to 100 pounds of mash.

Good alfalfa or clover also might solve your problem.

Concentrated buttermilk will not harm your birds. The fact that they eat it so readily is further evidence that they may be short something in their ration.

Perhaps eating a wet mash made of oats and milk for a while will overcome the depraved appetites.

It's the strain that counts!

YOU DON'T NEED "PULL" TO GET BIRDS WITH HIGHER PRODUCTION . . . meat, eggs, or both.

Just go to your Swift's hatcheryman and order the breed of Swift's strain-tested chicks which best suits your purpose. Whichever one you choose, you are assured of getting birds with high livability, early feathering, large capacity, and fast, uniform growth. Each of the strains has been developed and tested in Swift's Poultry Research Laboratory to insure these very important characteristics.

Start your profits and your flocks early, order your Swift's strain-tested chicks today!

Choose the breed you need!
Swift's strain-tested breeds:
- New Hampshire (dual purpose)
- White Rock (dual purpose)
- White Leghorn (high egg production)
- Barred Rock (dual purpose)
- Golden Neck Layer* (high egg production)

Crossbred chicks available at most hatcheries. Write for information.

*Available in Iowa only.

Swift's strain-tested chicks are:

Husky . . . They have been developed from strains which show the greatest vigor and fastest rate of growth.

Healthy . . . Breeding flocks have been carefully tested and are *pullorum-passed*. Swift's chicks are hatched under *hospital-clean* conditions, and are given proper care so they reach you in top health.

Hardy . . . Produced from strains noted for high livability. Many flock owners have reported that every Swift's chick they purchased lived!

Come in or write for more information

Order your chicks today from

SWIFT'S HATCHERIES

or Swift & Company Dairy and Poultry Plants

Algona	Clinton	Hampton	Mason City
Atlantic	Creston	Iowa Falls	Muscatine
Centerville	Dubuque	Keokuk	Ottumwa
Clarinda	Grinnell	Marengo	Spencer

BE SURE . . . of your chick ration!

FEED YOUR CHICKS **VICTOR** CHICK STARTERS (GRANULES OR MASH)

CRETE MILLS . . . CRETE, NEBR.

6 WEEKS OLD Large White Leghorns

Healthy, vigorous chicks that have proven their ability to live. We will tell you just what they will cost delivered to you. Get this information today. ECONOMY HATCHERY, WARRENSBURG, MO.

ZEELAND Mammoth White PEKIN DUCKLINGS

GROW FAST on LOW PRICED FEED

Order Now at These Low Prices

4½ lbs. in 9 weeks

SPECIAL "AAAA" MATING From 2 and 3 year old Breeders
12 ducklings, $4.95 — 25, $9.95 — 50, $13.95 — 100, $39.95 — 300, $87.95.

SUPREME "AAA" MATING From Yearling Breeders
12 ducklings, $4.45 — 25, $8.95 — 50, $14.95 — 100, $37.95 — 300, $81.95.

We pay postage. Send money with order or we'll ship C.O.D. Be sure to specify quantity, grade, and delivery date wanted. Available now and every week of the year.

FREE "DUCK RAISERS'" GUIDE!

Zeeland Hatchery, Inc., Bx. D-7, Zeeland, Mich.

WHITE LEGHORNS BIG TYPE

Fine Egg Laying Strain. 100% Blood Tested. 100% Live Delivery. Heavy Production Mating.

$10.90 per 100

Austra-Whites	$11.90
Brown Leghorns	$12.90
Golden Buff Minorcas	$11.90
New Hampshires	$10.90
White, Barred Rocks	$10.90
Columbian Rocks	$14.00
Leghorn Cockerels	$ 2.95

Baby Pullets $18.90

4-Wks. Old $32.90

Write for Catalog and Prices or Order Direct from This Ad

Grain Belt Hatchery Box WP WINDSOR, MISSOURI

— GEESE EGGS—MAMMOTH TOULOUSE —
Wonderful stock. Get order in early. Also White King Pigeons. GEBHARDT FARM, Muscatine, Ia.

EVERYBODY wants FUNJOL again to start their baby chicks! "Chicks do so much better . . . death loss smallest in years . . . best chicks I ever raised . . . saves hours of drudgery cleaning fountains . . ." That's what they all say when they've used FUNJOL!

It's FUNJOL that keeps down the scum and the slime. It's FUNJOL that SANITIZES . . . makes water SAFE for your baby chicks, by reducing bacteria counts to SAFE LEVELS. FUNJOL acts continually against germs of fowl cholera, pullorum and some strains of fowl typhoid, IN THE DRINKING WATER. FUNJOL greatly reduces chance of infection spreading through the water. It's palatable, inexpensive, easy to use. Just takes a teaspoonful to a quart of water in any kind of fountain.

This year, start your chicks on FUNJOL! Get a bottle today at your hatchery, drug store, feed or supply store. 8-ounce, 75c; Pint, $1.25; Quart, $2.

FUNJOL

A Field-Proven, Laboratory-Controlled Product of THE GLAND-O-LAC COMPANY, Makers of Quality Poultry Medicines for More Than a Quarter of a Century . . . at Omaha, Nebraska.

VICTOR CHICK STARTERS
(GRANULES OR MASH)

Let VICTOR CHICK STARTERS help you make best egg and poultry profits this year. KNOW your chicks are getting organic source Vitamins A B D E and G, proteins, carbohydrates, fats and minerals in proper amounts. VICTOR CHICK STARTERS contain ALL of these nutrients — essential for good chick health, fast growth and to develop into good laying hens early. Order your supply of VICTOR CHICK STARTERS today — either GRANULES or MASH.

See your VICTOR DEALER today
CRETE MILLS • CRETE, NEBRASKA

SAVE! ORDER *Boote's* CHICKS NOW!

Boote's chicks are famous for fast growth, rapid feathering —and big egg profits. Popular breeds. U. S. Approved and Pullorum controlled. Hatched in modern, sterilamp-protected hatchery to give you strong, husky, healthy chicks. $4.00 per 100 and up—guaranteed to live 3 weeks. No strings to this. Boote's 22 years' experience assures you satisfaction. Save money. Order now. Free catalog.

BOOTE'S HATCHERIES, INC., Worthington, Minnesota

—PUT SOME OF THAT EXTRA CASH INTO SAVINGS BONDS—

1 "Here We Go again," said the Melford Rosanders, of Warren county, Iowa, as the weatherman predicted another five inches of snow and severe cold.

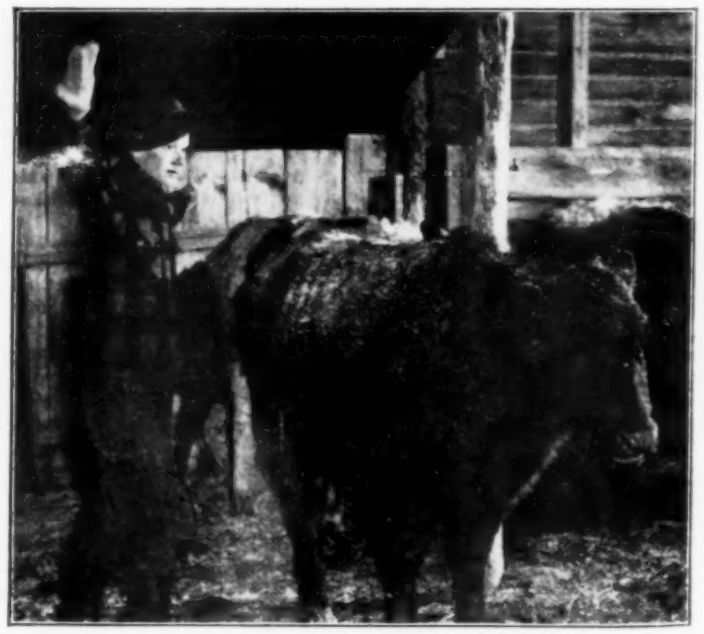
"Snow, Much Colder"

THAT'S a familiar weather forecast to Iowans. They have heard it more than once in the past couple of months.

Whenever it came, most farmers hurried to take a look around the place, make sure everything was buttoned up and under cover.

That's what the Melford Rosanders, of Warren county, Iowa, were doing when a photographer dropped in on them in mid-February. Pictures on these pages are the result.

2 Forecast of bad weather starts Rosander and son Merrill, 12, on an inspection tour. First stop was hog house, to check on brood sows. Rosander expects 13 litters this spring.



3 Sleet already covers the backs of the cattle as Merrill hustles them into the shed. By this time, our photographer was beginning to think there must be an easier way to make a living.

Save Your Life!

Here's another true story of a farm accident—told by N. J. Wardle, Iowa State College safety specialist.

"JOE, head off that cow. Run faster. Oh, you're too slow!"

"Gee, Dad, she runs too fast for me."

"Well, get around her and bring her back. We've got to get these cows in and milked."

Joe finally rounded up the pesky cow, brought her slowly back. John Martin stood to one side to help his son head her into the barn.

Then she tried to cut back again. John ran quickly to head her off, then slipped on the rough, icy yard. He felt a quick, piercing pain in his ankle.

John was able to get up and hobble painfully around until the cows finally were all in and milked.

It was like this every night, he thought—two and a half hours to do chores.

"Well, I hope you'll learn enough in school so you won't have to be a farmer all your life." John told his son, as he hobbled painfully toward the house.

"But I want to be a farmer, Dad. In ag class today . . ."

"And that's another thing, Joe. Why do you insist on taking farming in school? Seems to me you'd get enough of that here at home."

"But in ag class we learn about a different kind of farming," Joe said. He told how they'd been shown that yards could be organized to handle stock easily, how to save steps in the barn, and many other things to make work easier and quicker.

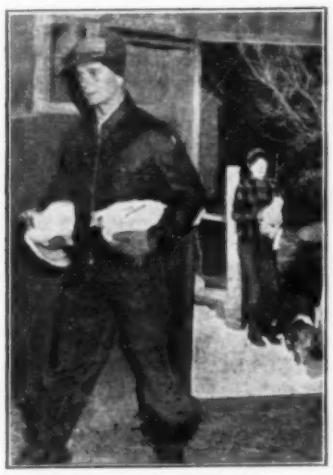
Joe clinched his argument by saying: "If we had things organized here, we could do the chores in a lot less time, and you would not have sprained your ankle."

That isn't as silly as it might sound, either. Many accidents on the farm are due to hurry and fatigue caused by overwork and long hours.

Yet every farmer can do much toward reorganizing and systematizing his work. Some farmers, by studying their operations, have been able to cut their chore time by more than half.

You'd be surprised how much safer your farm could be if it were organized for more efficient work.

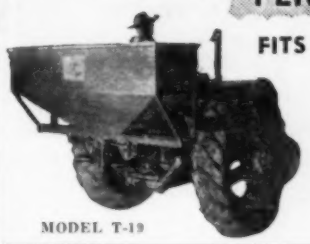
4 Young Philip Rosander, 4, carries sled inside where storm can't snow it under.



5 Last Job was rescuing a few foolish hens which had sneaked out into cold.

6 Cold Ears welcome kitchen warmth as Rosanders finish their storm preparations. Unconcerned about weather is Phil's twin sister, Phyllis. She's in bed with attack of chicken-pox.

Look! SEEDS UP TO 25 ACRES PER HOUR *with the New* Turley SEEDER



MODEL T-19

FITS ALL TRACTORS
- Twin Fans and Twin Agitators
- 15 Bu. Hopper Capacity
- Heavy-duty Power Take-off Drive
- Seed Shutters Individually Controlled
- On and Off in a Jiffy

HOPPER SIZE INCREASES TO 22 BU.

7 bu. extension hopper available for use on two or three plow tractors. Built-in grass seeder . . . standard equipment . . . but easily removed for increased hopper capacity if not needed. Fast flow hopper bottom—no clogging—no bridging

Herd Seeder

38 QUART CAPACITY

Model R-38
- All seed spread away from tractor
- Fits all tractors and Jeeps.
- Seeds 10 to 22 acres per hour according to seed
- Smooth feeding . . . even seeding . . . will not clog
- Sturdily built with heavy castings . . . bronze and Oilite Bearings
- Driven from power take-off—V-Belt drive from 2-speed pulley on drive shaft

Easily sows 70 acres per day. Hopper agitator prevents clogging . . . assures even seeding . . . with all seed thrown away from tractor. Graduated seed opening calibrated in quarter inches with quick adjustment for all varieties of seed.

— Also Available In 5 Bushel Capacity, Model R-5

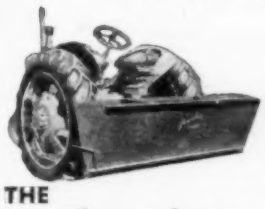
Belt HARVEST-HANDLER *Elevator*

- Weight — approx. 100 pounds with gasoline engine
- Length — 16 feet — meets elevator requirements for small and average farms.
- Sturdily constructed of high-strength, rust-proof aluminum alloy
- Self-loads direct from bin to truck without scooping with hopper sides and cover under hopper removed

Gearless PHOSPHATE and FERTILIZER DISTRIBUTOR

Simple, gearless construction means lasting, trouble-free operation—provides even agitation throughout the spreading operation. NO LUBRICATION NEEDED — NO GEARS TO WEAR! 1 ton capacity—weight 850 pounds—distributes 75 pounds and up per acre. 14 ft. width—covering 4 rows.

Hopper Swings Parallel for Transporting on Highways and Through Gates.



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- 1,000 pounds capacity
- Distributes 75 pounds and up per acre
- Spreads 12 inches from ground decreasing wind drift

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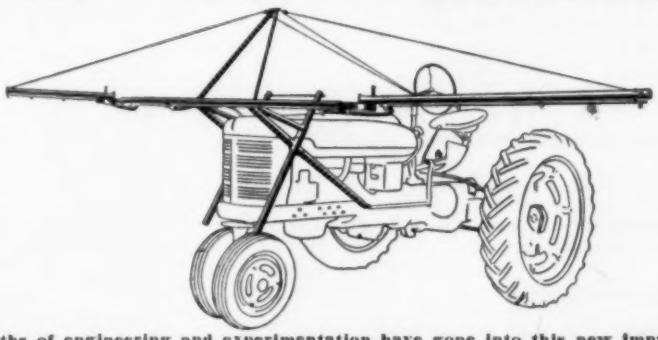
THE NEW IMPROVED
BEL-FAN SPRAYER



Months of engineering and experimentation have gone into this new improved sprayer to bring to the farmer a spray unit built "to do the job." Copper and bronze lines are used throughout to insure dependability. A universal mounting that can be assembled on any tractor, truck, or trailer. Pulley assembly raises with the unit giving complete control of booms at all times.
A new feature of the BEL-FAN Sprayer is the Boom-Hinge assembly, permitting the boom to break up, backwards, or forwards.
Write for "BELMER'S SPECIAL OFFER," a surprise offer that will be limited. No obligation.

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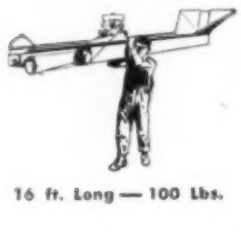
Over 80,000 bushels
of grain and ear corn
...in one year

... still going strong

Carry the Belt HARVEST-HANDLER Elevator on your shoulder



16 ft. Long — 100 Lbs.

Patent Pending

That's what truckers and grain dealers report for the Belt Harvest-Handler. It's more than most farmers will handle in 10 years . . . a real test of serviceability and long life. Proves why farmers everywhere are more than satisfied with their Belt Harvester-Handler elevator. Gets year-'round use on all kinds of handling jobs. Specially designed steel flights in all-aluminum alloy Harvest-Handler insure maximum life. Reaches 11 ft. at 45°, up to 20 ft. from ground with hopper on sideboard. Available with or without engine or motor.

$197 with gasoline engine
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MAKE YOUR PLOWING Cheaper Faster
Save labor this spring

THIS or THIS
In 15 Minutes

Use the Handee QUICK AXLE CONVERTOR
as the champions did at the Wheatland and the Dexter, Iowa, plowing contests.

Thousands of farmers have learned how to save time and money, beat the weather and do more jobs more quickly by using a Handee Quick Axle Convertor.

With your tractor converted to standard tread, you can do your spring plowing with a front wheel in the furrow. No more front end weave and fighting the steering wheel. The result is lower cost for your farm work.

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HANDEE FARM EQUIPMENT CORP. BETTENDORF IOWA

Nehring CORN PLANTER HITCH

Add tractor efficiency to your horse-drawn planter and depend on tractor seat operation with this ingenious, yet inexpensive, corn planter hitch.

Simply installed by three bolts, the check head extensions are available for Case, Deere, I. H. C., Moline and Oliver planters. A conveniently located lever lifts planter from the ground and AUTOMATICALLY trips the check head.

Also available is the extra bundle that makes possible the conversion of your horse-drawn mower for tractor operation. For full information and complete satisfaction see your local dealer or write direct to NEHRING MFG. CO.

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ELMORE, MINNESOTA

—SAVE MONEY THE EASY WAY—BUY SAVINGS BONDS NOW—

New Ideas Told At Farm-Home Week

Whirlwind Short Course Gives Latest Dope On Everything From Price Outlook To APF

"GLAD I came"; "I picked up a lot of information"; "Wish I'd come for the first days, too"—these were comments of some farmers who attended the 1949 Farm and Home Week at Iowa State College.

For four days Iowa farmers gathered to hear the latest findings and developments in crop research, fertilizer use, corn tests, cattle and hog feeding, and erosion control.

Here are some of the highlights of the four-day session:

FARM OUTLOOK . . .

This won't be as good a year as '48, but it will still be a good year for farmers, said Francis Kutish, ISC farm economist.

"The bloom is off the boom," was how Kutish put it. He meant that 1949 won't be an inflation year. It will be the end of the boom rather than the start of a depression.

Farm prices will continue to decline in relation to non-farm prices. Less of the consumer's dollar will be spent for meat this year. But beef cattle numbers are down. The prospect is for good cattle prices during the next five years, while beef herds are being built up again.

FERTILIZER . . .

"Use fertilizer efficiently," said college agronomists. It doesn't make sense to put on fertilizer without knowing whether it fills the need of your soil. With lower farm prices, farmers can't afford to use just any fertilizer, soil experts said.

Most important place to use nitrogen and phosphate is on small grain at seeding time, L. B. Nelson, research agronomist, reported. Fertilizer put on then will help the legume seeding so it can add nitrogen to the soil.

Oats need nitrogen because they usually follow corn, which is the big user of nitrogen. In experimental fields, Nelson said, 25 cents' worth of nitrogen gave one more bushel of oats per acre.

Corn needs a lot of nitrogen, some phosphorus and some potassium. Oats need mainly nitrogen and some phosphorus, but seldom respond to potassium. Legumes need phosphorus.

OATS . . .

Clinton is still the best oats for Iowa, tho it is susceptible to Race 45, a variety of crown rust. Plant breeders are now working to develop new oats that will withstand Race 45.

Race 45 has done considerable damage in southeast states. It has been observed on volunteer oats in Iowa. Plant breeders suggest that farmers turn to Marion or Colo oats if Race 45 becomes a serious problem.

Colo and Marion are not completely resistant to Race 45, but they have stood up fairly well in field tests. Both are resistant to helminthosporium.

Improved varieties of Clinton include Reselect Clinton, Clinton 59 and Illinois 11.

CORN . . .

Boosting the usual rate of planting corn by one kernel per hill in 40x40-inch checked rows will increase yields from 8 to 12 bushels per acre, Agronomist Lloyd Dumenil told farmers.

He advises planting one kernel per hill for every 25 bushels per acre of expected yield. On high fertility soils, top yields are produced from a stand of 3.5 to 4 stalks per hill. Since 20 per cent of the corn planted fails to make a stalk in the final stand, you need to plant 4 to 5 kernels per hill.

On low to medium fertility soils, you would plant 3 to 3.5 kernels per hill, and end up with 2.5 to 3 plants per hill.

SPRAYERS . . .

Four college specialists agreed that the best farm sprayer is one

New Officers for 1949-50 were elected by Iowa rural young people at their annual assembly at Iowa State College last month. Chosen were (from left): Kenneth Smalley, Johnson county, director; Creighton Miller, Pottawattamie county, president; Doris McCormick, Jefferson county, treasurer; Fred Cobler, Wapello county, vice-president; Lois Eyerly, Madison county, director; Johnny Woline, Henry county, secretary; Homer Ferguson, Mahaska county, director.

DUZ-ALL LOADER

For ALL Makes and Models of 3 or 4-wheel Tractors

A Better LOADER AT A Lower PRICE!

A Big STEP FORWARD IN LOADER CONSTRUCTION!

Attached or Detached By One Man in 15 Minutes or Less!

An IMPROVED TYPE of tractor loader powered by "balanced twin hydraulic lifts." No twist, strain or wear on hydraulic mechanism. NO belts, NO gears, NO cable or pulleys to cause trouble. A perfectly engineered job! Bulldozer, Snow Scoop, Sweep-rakes and other attachments available.

Lifts large loads to exceptional heights. Clears any door tractor will go through. Easiest of all loaders to attach and detach. Just drive under to attach, drive out to detach.

CONVERT Your Mechanical Loader to a hydraulic loader with one of our "Conversion Kits"—2 cylinders with mounting brackets, hydraulic pump with mounting brackets, hose connections and control lever. Everything you need!

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Send complete information on ☐ Duz-All Loader ☐ Conversion Kit

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"Now I Can SLEEP"

"Coffee nerves used to keep me tossing and turning. But since switching to POSTUM, I sleep soundly—and friends have commented on my improved appearance."

SCIENTIFIC FACTS: Both coffee and tea contain caffein—a *drug*—a *nerve stimulant*. So, while many people can drink coffee or tea without ill-effect—others suffer nervousness, indigestion, sleepless nights. But POSTUM contains no caffein—*nothing that can possibly keep you awake!*

MAKE THIS TEST: Buy INSTANT POSTUM today—then drink POSTUM exclusively for 30 days—*and judge by results!* . . . INSTANT POSTUM—A Vigorous Drink made from Healthful Wheat and Bran. A Product of General Foods.

FOR SALE

Disk Hillers for HM238 corn cultivators, Fertilizer Attachments for Side Dressers for HM238 Cultivators, Four row McCormick-Deering corn cultivators for M or MD, Weeder Mulcher attachments to fit all McCormick-Deering cultivators, H and M Attaching parts to convert 4 row FA 40 Go Disc to hydraulic.

Single front wheels complete with Tires and Tubes for C, H, B and M Tractors. Wide Front Axles for H or M Tractors. Hydraulic Cylinders for Cultivators. One 100 McCormick-Deering Hammer Mill. Corn Cultivators for A, C, H, or M Tractor. Mounted two way Plows for Cub, C, A, H and M Tractors.

All new at regular list prices.

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NEW Duplex HYDRAULIC SCOOP.. AND REVERSIBLE BULLDOZER & SNOWPLOW

For hydraulic equipped tractors. Hand lift model also available.

With this hydraulic scoop, you can dig, deliver, place more dirt faster, easier.

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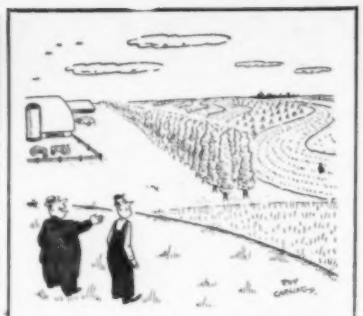

"I owe my success to working hard, conserving the soil, and winning the farm on a give-away program."

that can handle three different spraying jobs. The three jobs are weed killing, corn borer and fly control, and cattle grub and livestock spraying.

The ideal sprayer can spray at pressures of from 30 to 250 pounds per square inch, can take hard treatment, is not affected by spray materials, and has a safety valve to prevent blow-ups.

MARKETING . . .

Livestock men should pay more attention to marketing, Rex Beresford told farmers. As a long-time average, beef producers got about 50 cents of the consumer's meat dollar. During 1948, the producer got about 72 cents of the dollar.

The trend is downward again, said Beresford. With smaller feeding margins in prospect, it's a good idea to study marketing. Farmers should watch the dressed meat market in New York, Boston and Chicago.

The buyer knows what the dressed meat market will pay for various cuts and carcasses. He knows about how much dressing shrinkage to expect. Then he figures how much he can pay. The seller ought to know those facts, too.

FEEDING . . .

APF, or animal protein factor, was explained by Damon Catron as a vitamin or combination of vitamins, and not a protein.

Sources of this are fish products and chicken and animal manure.

2,4-D Will Kill Bindweed

To the Editor: I have a bad patch of bindweed. I would like to use 2,4-D to kill it, but would also like to keep my regular rotation. Do you have any suggestions?—L. P., Fillmore County, Nebraska.

If your rotation calls for oats, you can spray the first time when the oats are fully tillered, but before any heads appear, when the grain is about eight or 10 inches high. Then you could spray right after harvesting, and give it a third shot along in September.

If you plan to put in corn, you can spray the first time when the corn is about eight inches high. Spray a second time when the corn gets high enough to just let your tractor thru. Put extension nozzles on the sprayer so that the spray will get down below the corn. A third spraying of remaining patches with a knapsack sprayer should complete the job.

RUBBER GLOVES are recommended for handling new-born pigs as a protection against undulant fever.

Saves WORK! Saves CROPS! Saves TIME!

ROTO-RAKE

Pat. Pending

Rakes on Rough, Smooth or Terraced Land ● Makes Windrows at a Speed of 3 to 20 Miles an Hour ● Rakes 4 ft. to 9 ft. Swath ● Easy for One Man to Operate ● Portable . . . Wheel Anywhere ● Built Right . . . for Years of Service ● Priced Right ● Rakes Faster . . . Cleaner . . . Smoother

SIDE DELIVERY RAKE

Many Amazing New Features!

If you do any kind of raking on your farm here's a machine that will save you lots of hard work, save time . . . harvest more of your crop! You'll find this side delivery ROTO-RAKE will do a faster, cleaner, smoother job.

With the ROTO-RAKE you can rake equally well on smooth, rough or terraced ground. Rakes desired size windrows at speeds of 3 to 20 miles an hour.

Because ROTO-RAKE raking teeth (Pat. Pend.) are scientifically angled to produce a free-sweeping action, windrows are uniform . . . no roping or bunching. ROTO-RAKE won't "jack-knife" on hillsides. Rear ground wheel controls width of swath—from 4 to 9 feet. Raking wheels can be raised quickly for road or across-fields travel. ROTO-RAKE has been thoroughly tested and proved—handles crops wet or dry, heavy or light. Quality of construction and performance guaranteed.

Sold by Leading Dealers Throughout the State

If your implement dealer does not have ROTO-RAKE on display, write for Free Illustrated Folder. Use coupon.

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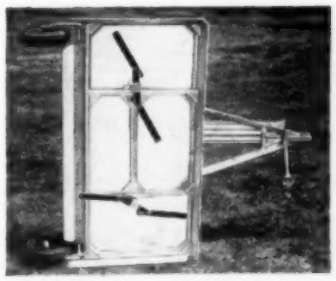
Wood's All Purpose All Weather ROTARY CUTTER



Two 40" cutting blades travel in approximately a horizontal plane at 1200 RPM—come in contact with the material that is being cut throughout 360° of travel—reducing it to mulch for easy absorption back into the soil, eliminating discing and allowing shallow plowing.

HORIZONTAL Cutting Blades Eliminates Clogging

Operates on Frozen Ground

● Simple and safe to operate—Wood's Rotary Cutter is the only *all purpose* heavy duty cutting machine on the market today! It operates equally well on frozen ground and cuts against the stalks and stubbles as well as with them.

● Wood's Rotary Cutter is so designed that the horizontal cutting blades are free from clogging and will shred any residue from corn stalks to weeds.

Let a Wood Rotary Cutter Simplify Your Spring Plowing

WRITE FOR FREE LITERATURE

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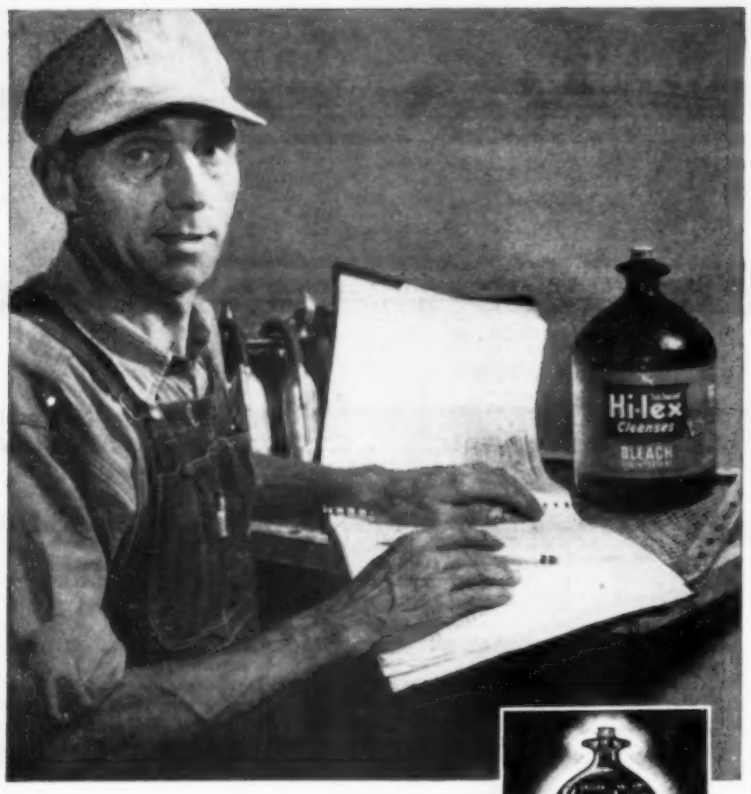
SAFETY FIRST!! Do your buying from firms advertising in Wallaces' Farmer and Iowa Homestead. If you do not find in Wallaces' Farmer and Iowa Homestead the articles you want to buy, just let us know what you want and we will be glad to give you names of reliable firms.



Hi-lex helps keep bacteria count down—milk profits up
says Iowa Dairyman

"I'm always going to make sure that our milk is wholesome by using Hi-lex to help keep the bacteria count down," says Walter G. Eppling of Sioux City, Iowa. "I use it for washing the udders before each milking as well as for cleaning and soaking my milking equipment. It's good—and economical!"

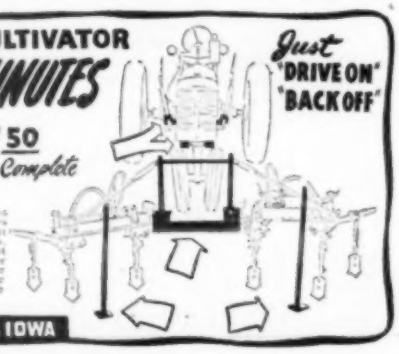
BUY Hi-lex . . . BUY THE GALLON . . . BUY THE CASE

Plugged Plows Kill Time!
Let COVERALL Coulter Slash Trash and finish Plowing Earlier!

See the Coverall Coulter—"The Disc Jointer"—at your implement dealer's today—or write at once for free illustrated folder telling all about the greatest piece of farm equipment since the small combine.
The Coverall Coulter fits any plow—quickly installed—easily adjusted.
Cutter-jointer movement leaves a clean, straight furrow wall.
Disc is self-sharpening, self-polishing. Vicious slicing movement of whirling disc slashes right through heaviest growth and lays it over flat—then soil from mold-board covers it instantly.
Thorough coverage of cornstalks, bean straw and heavy virgin sod smothers corn borers—they just "can't take it!"
The Coverall Coulter reduces draft. Operate tractor one speed faster. You can finish plowing earlier.
The Coverall Coulter has heavy duty construction—weighs 45 pounds. Major elements drop forged, not cast. Timken bearing equipped. Rigid alignment.
Start your spring plowing right—see the Coverall Coulter at once. **Ask your dealer—or write us direct** for illustrated literature. Get a Coverall and cut down plowing time—with cleaner plowing—far easier work—and virtual elimination of the corn borer.

Frank Manufacturing Co. Inc.
110 Main Street Mentone, Indiana

YOUR FARMALL '238' CULTIVATOR
ON OR OFF IN 3 MINUTES
★ ONLY 2 BOLTS
★ NO LIFTING
$27.50 Complete



Just "DRIVE ON" "BACK OFF"

The new **VERMEER** Cultivator attachment saves time and labor. Fits **Farmall H** and **M** tractors with the 238 cultivator. One man can mount or remove the cultivator in only three minutes. Only two bolts to attach. Takes the "**work**" out of attaching your cultivator. Leaves it ready for **immediate use. No more lifting.** See your dealer or write direct. Only **$27.50.** Dealer inquiries invited. Also available for John Deere cultivators at **$32.50.**

VERMEER MFG. CO. • PELLA, IOWA

Preparing for spring pigs, George (on tractor), Hans (left) and Don (outside) Barkema, of Hamilton county, Iowa, clean shed after winter cattle feeding. Later, shed will be cement floored.

Corn Was 40 Cents Ten Years Ago

Diary Of An Iowa Farmer Shows How Prices And Weather Looked In 1939

For years before his death, E. G. Powers, Boone county, Iowa, farmer, kept a diary from which Wallaces' Farmer and Iowa Homestead has quoted many times. Here are some extracts from his entries made in early 1939. Readers may enjoy comparing prices and weather with early 1949.

JANUARY 4: Damp weather today. Odd jobs around the farm. To town a short time. Around the cold storage locker plant. Quite a few farmers butchering, but most of it goes into the lockers.

JANUARY 5: Sold a young male hog this afternoon for $16. Attended the sale barn sale.

More and more stock is coming in trailers behind the cars. Prices are working a little higher all the time. Much of it is speculation and dealing to make a little money and for the fun of dealing. Finally the bottom will fall out of it, so to speak, and values will be lower, perhaps where they should be.

JANUARY 9: Odd jobs around the farm this forenoon. To the county-seat this afternoon. I did not go to the sale barn this afternoon, but learned that three sows and 21 pigs sold for $150.

JANUARY 11: This afternoon, I drove over to Jefferson, to the REA offices, to learn how the lines were developing. It seems to be slow work and to take a long time to get everything attended to. Farm folks there, who are able to use the current, now think very well of it.

JANUARY 13: I went to Boone and attended the sale barn sale today. I found perhaps the largest offering and the largest crowd this sale barn has ever had.

I was interested in buying some calves, and found there were around 75 head put thru the ring. Ranging in price from around $5 for the very young calves up to $25 for the choice vealers.

JANUARY 22: Just the average Sunday on the farm. Some company to entertain. Away some of the day, visiting. Around the farm and among the livestock a little more than usual.

This evening, attended one of the churches in the village. Not a very large attendance. The roads and weather are good, the church building was well heated, the seats were comfortable, and the pastor is a man who understands rural and community life very well. However, the attendance was under 50. And only three cars were parked near the other church.

JANUARY 25: I spent the forenoon driving to adjoining farms on REA membership work. There are still too many farmers who are not as yet entirely familiar with the REA plan and the advantages it offers.

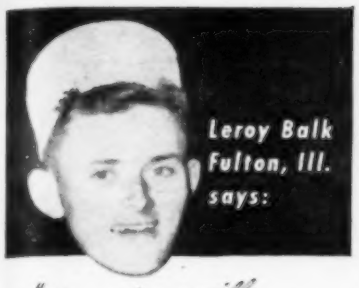
The fine weather continues. Good weather for wood-sawing, feed grinding and the various outside jobs that are always coming up to be done. Markets are steady.

JANUARY 30: Colder weather today, but we worked around the farm, anyway. We were in the fields with the spreader, grinding feed and sawing wood, etc. Several farmers on adjoining farms were in their fields, too.

JANUARY 31: The weather took a change for the worse this evening. It looks very much like we may have quite a storm before it is over.

FEBRUARY 1: A busy and interesting day. Odd jobs around the place. Nailed more of the metal roof on the new corn crib. Have found now that I would have been better off if I had disposed of the 1937 corn instead of resealing it. The new crib cost more than it appears I will get out of the corn.

FEBRUARY 6: Drove to Perry, taking stock to the packing plant for a neighbor. The plant was paying $5.25 for cattle and $7.50 for veal calves. Quotations may have been higher, but these were actual sales of just a little better than the average run of livestock.



"Hog raisers will recognize we had higher than average losses when we were losing 25 to 30 hogs per 100 to 'necro' after vaccinating the old way.
"We started using BTV.—the one shot vaccine—5 years ago. Now we save hogs we used to lose, keep 'em on feed after vaccinating and have lots less work"

Now is a good time to talk to your veterinarian about using BTV this spring.

Send for free booklet on hog cholera prevention. Just write to: Cutter Laboratories, 111 N. Canal Street, Chicago, Ill. Dept. C-90

The proven ONE SHOT hog cholera vaccine

CUTTER B·T·V·

Teat? TROUBLE

Relieve the Constriction of Sore, Spider or Obstructed Teats with

FLEX-O Medicated Dilators

Keep Teat Canal Open Until Healed

Help control infection and prevent its spreading with FLEX-O Medicated Dilators. Pliable, absorbent internal dressings. Packed in new, improved Antiseptic Salve. Scientifically medicated to aid in healing damaged tissues. Carry medication to infected area. Widely used by veterinarians.

FOR HARD MILKERS

FLEX-O Dilators tend to partially relax the sphincter muscles at the end of teat canals. Make milking easier—especially where teats are sore or infected.

Available in regular and large (*longer and wider*) sizes—each in tin of 24 Dilators. Ask your dealer for a package of FLEX-O Dilators. If not available, enclose 50¢ and write for trial package to:

FLEXO DAIRY REMEDIES CO. Montclair 17, N. J.

THE H-K UNLOADER

REMOVABLE

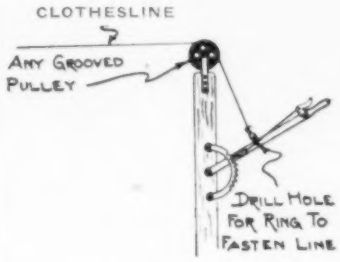
HOTCHKISS STEEL PRODUCTS CO. DEPT WA BRADFORD, ILL.

BUY U. S. SAVINGS BONDS NOW

HANDI-HINTS

Keep Clothesline Above Mud

Here is a clothesline tightener that any housewife can handle. And it's easy for any husband to fix-up.



You need a couple of pieces of strap-iron, an old grooved pulley, and a lever and quadrant off some junked farm implement. Assemble according to the illustration, and the wife's clean sheets won't drag on the ground any more.

How To Figure Rope Strength

How many farmers know how to figure the "working strength" of rope? How many know how to figure the "breaking" or tensile strength of rope?

The breaking strength of rope averages about 23 times its "safe" or working strength. This is the "factor of safety" employed by engineers, which is as low as two for some things and is 23 for common rope.

Here is the safe, or working strength, formula for rope:

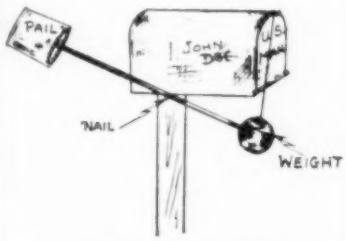
Square the diameter of the rope in inches and multiply by 200. For a ½-inch rope, this would be ½x½x200, or 50 pounds. For a 1-inch rope, 1x1x200, or 200 pounds.

The breaking strength of the ½-inch rope would be 23x50, or about 1,150 pounds. The breaking strength of the 1-inch rope would be 200x23, or 4,600 pounds.

This formula applies to cotton, manila or hemp ropes.

Flag Saves Trips After Mail

On bad days, the mail carrier is often late. To save trips to the mailbox, you might try putting up a flag. Remove the sections from an old mower knife, but leave on the head as a weight.

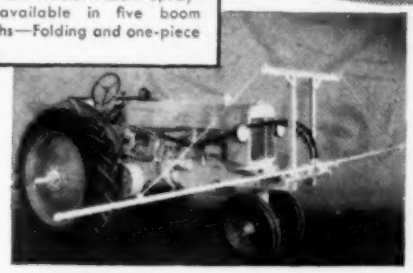


Cut the knife off about three feet long. Put a gallon pail on the other end as a flag. Nail to the side of the mailbox support.

Tie one end of a light rope to the weight. Hook the other end over the catch holding the box shut. When the carrier opens the box, the weight drops. This raises the flag.

KROMER WEED AND INSECT POWER SPRAYERS

KROMER Tractor Mount Sprayers available in five boom lengths—Folding and one-piece type.



KROMER'S Finish "X"
Makes steel booms and tanks resistant to chemicals that attack brass, aluminum or stainless steel.

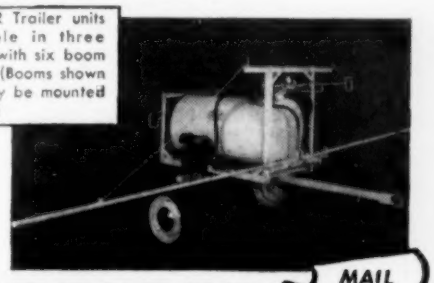
KROMER'S Two-Piece Booms
Fold for storage and easy transportation. Safety catch releases booms when obstruction is hit. Booms return to locked position automatically.

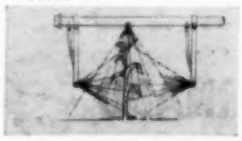
For CORN and Other ROW CROP Spraying

The Flat fan-type shower of small droplets discharged by the KROMER nozzle minimizes fogging and drift . . . assures thorough penetration, even in windy weather. KROMER Sprayers provide ample pressure and capacity for every spraying need.

WEEDS IN CORN (Two Nozzles Per Row) (One Nozzle Plugged)
KROMER Row Crop Extensions place spray *direct on weeds;* keep chemical off corn.

KROMER Trailer units available in three models with six boom lengths. (Booms shown also may be mounted on rear.)





CORN BORER (Three Nozzles per Row)
The KROMER kills borers by putting chemical on top of leaf and in plant whorl where borers feed.

MAIL TODAY!

O. W. KROMER CO.
1120 Emerson Ave. No., Dept. D, Minneapolis 11, Minn.
Send me full information about the KROMER Tractor Mounted
Sprayer ☐ Trailer Models ☐
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Town
State

BUY DIRECT AND SAVE on Agricultural CHEMICALS

Yes, now you can save up to $3.00 per gallon by buying 2,4-D *direct* from the Pioneer Chemical Corp. and carry out a full weed control program on your farm at much lower cost.

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You can buy it *direct*. There are no jobber or dealer commissions to pay. Usually these extra markups raise the price of 2,4-D compounds to $7.50 or more. When you buy direct and save the dealer's profit, the price is lowered to $6.50 or less. *You* get the difference in savings!

Ask Your County Agent

Your county agent will tell you that it is the actual acid content of any 2,4-D compound that determines its value. In Pioneer 2,4-D Ester with its 2.65 lbs. of 2,4-D acid per gallon and Pioneer 2,4-D Amine containing 4 pounds 2,4-D per gallon, you get as much weed killing power as you do from compounds selling for $2.00 and $3.00 more.

MONEY-BACK GUARANTEE
All Pioneer chemicals are guaranteed to be of the highest quality and guaranteed to give satisfactory results when used according to specific directions on the labels.

COMPARE THESE PRICES — WE PAY THE FREIGHT

	1 Gal. Can	5 Gal. Can	55 Gal. Drum
Pioneer 47% Weed Killer (ESTER—2.65 lbs. 2,4-D acid per gallon)	$6.35 Per Gal.	$6.05 Per Gal.	$5.55 Per Gal.
Pioneer Weed Killer (AMINES—4 lbs. 2,4-D acid per gallon)	$6.85 Per Gal.	$6.75 Per Gal.	$5.95 Per Gal.
OTHER CHEMICALS Water-Mix Emulsion 25% DDT	$3.45 Per Gal.	$3.25 Per Gal.	$2.65 Per Gal.
Pioneer Chlordane Emulsion 47%	$7.95 Per Gal.	$7.60 Per Gal.	$6.95 Per Gal.
Pioneer 5% Chlordane Dust 100 or 200 lb. container, $0.20 per lb.			
Pioneer 50% Chlordane Wettable Powder 25-50 or 100 lb. container, $1.05 per lb.			

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K. C. Live Stock Exchange Bldg., Room 512-A
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☐ Send your pamphlet, Weeds and Weed Killers, at no cost to me.

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SPRING WINDS

It's here now—Iowa's windstorm danger season. So check up on your buildings this week. Look for roof defects, insecure doors and other flaws that invite wind damage. Make repairs BEFORE wind hits—and avoid heavy losses later.

- **REPAIR ROOFS** with first-class shingles: heavy-weight composition or A-1 cedar. Or, on metal roofs, use heavy gauge steel. Use plenty of long nails.
- **CHECK WALLS**, rafters, foundations. Look for bulges or leaning. Anchors and braces, easy to install, may prevent serious damage.
- **EXAMINE DOORS** and windows. Replace faulty hinges and door tracks. Replace cracked glass and broken putty.
- **CHECK CHIMNEYS** for loose bricks and other flaws. Repair defective gutters.
- **REMOVE DEFECTIVE TREES**, especially those near buildings and paths.
- **KEEP IDLE MACHINERY** under cover, in substantial buildings.

REPAIR NOW! And remember: Good materials and workmanship are cheaper in the long run.

For more help on loss prevention and protection, see your County Mutual agent. Or write . . .

IOWA MUTUAL TORNADO INSURANCE ASSOCIATION

HUBBELL BUILDING DES MOINES

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I've Seen New Farm Methods I Can Use Before Planting . . . and We've Had a Good Time, too!"

Now is the time to take your vacation . . . before spring work catches you. Take the family and look around, see new places; different crops, soil conservation, and agricultural improvements in other states. You'll return happy and rested—perhaps with new ideas for the planting season ahead.

Pack your bag, tell the family the good news . . . take a trip combining pleasure and profit. Your nearest Greyhound Agent will help you plan a trip that's easy to take and easy to afford.

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Enjoy a trip completely planned for you! Hotels, sightseeing, transportation—all arranged in advanced for one *low* cost. Ask your local Greyhound Agent for full information.

See More-Save More!

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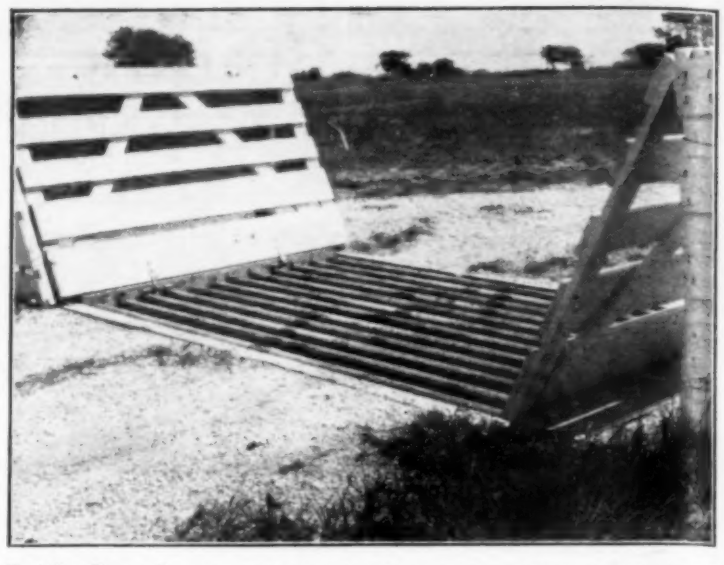

Cattle Guard saves gate-opening time on lane from road to Frank Abraham's house in Henry county, Iowa. There is a gate alongside the guard so that the stock can be driven out of pasture.

Plan Road To Each Farm Home

But Some Gas Tax Refunds May End, And Old Car Owners May Pay More

ROAD plans in the Iowa legislature look toward (1) completing the primary road system, and (2) giving every reasonably located rural home a surfaced outlet.

It is estimated that it will take 20 years to do this job. Tax money required per year is estimated at $88,350,000.

Money now available for highway construction is $74,139,000 a year. So the legislature has been looking for places to find an extra $14,211,000 per year.

The $74,139,000 now spent per year on roads comes from these sources: (1) So-called road-use funds, made up of gasoline taxes, motor vehicle registration fees and motor vehicle carrier taxes; (2) property taxes, and (3) federal aid.

Road funds have been getting about $40,585,000 from road-use funds, $23,707,000 from property taxes, $9,847,000 in federal aid.

The Iowa house of representatives has passed a road bill which aims to raise at least a part of the extra $14,211,000 needed to complete the road system.

Here is where they propose to get the money:

Ten per cent of the sales tax funds collected will be diverted to road funds. This is aimed to get the sales taxes actually paid on motor vehicles and accessories into the road-use fund. They used the 10 per cent figure rather than try to separate sales taxes on autos and accessories from other sales taxes.

This diversion from the sales tax receipts would add about $4,990,000 to the road funds. Then the house would take $3,475,000 from the use taxes collected on motor vehicles and add that to road funds.

These two sums account for $8,465,000 of the extra $14,211,000 the legislature is looking for. The house bill leaves the fund $5,746,000 short.

The bill passed the house and went to the senate with this shortage. But the house has bills on its calendar to raise part of the shortage.

One bill would defer reduction in your automobile license from the fourth to the sixth registration. This might bring in an extra $2,910,000 per year from folks with old cars.

Another plan being considered is to increase all truck registration fees. This might bring in $1,836,000 per year.

Still another proposal is to stop refunding gas tax to off-the-road users on the fourth cent of Iowa gas tax. This would get about two million dollars per year from farmers and some industries.

The plans now considered do not include the $10 tax on tractors used on the road. This bill was smothered in the house roads committee.

But the three plans still under consideration by the house would bring in a possible $6,746,000, or about a million more than the total aimed at.

The bill will be in the senate when the legislature convenes on March 7. The senators may have something to say about how the money shall be raised. But it is thought that the senate will be disposed to take the main provisions of the house bill rather than let the fight go back to the house.

Southern Iowa lost a point in dividing the road money for building farm-to-market roads. The allocation has been half on the area basis and half on the need basis. The house set the division at 60 per cent area and 40 per cent on the need basis.

On the general distribution, the $49,050,000 of road-use funds will be shared this way: Primary roads, $20,610,000; secondary roads, $17,167,500; urban streets, $3,924,000.

Farm-to-market roads would get $7,357,000, divided into $4,414,000 on area allocation and $2,943,000 on need allocation.

Snowco All-Purpose All-Steel
Farm Skid

Moves Everything EASIER!

Here's the greatest labor-saver you ever saw! Only 5 inches high—very easy to load—no high-lifting. Ideal for hauling baled hay, fencing, litter, feeds, barreled water, etc., about the yard. Also machinery, fuel oil and seed to and from field. Designed with bolts for mounting grinder, grain roller, small corn sheller, etc. Universal mounting—easily adjusted to fit any size equipment—no holes to bore. Skid slides easily on 3-inch channel steel runners; 1½-in. steel tubing frame, electric welded joints. Tractor or horse drawn. Pulls from either end; 6 feet 9 inches long, 30 inches wide.

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Kills Germs on Contact

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Why let rats destroy your property, spread disease when it is so easy to kill them with RODAN—the only rat killer that contains both DuPont ANTU (the deadliest rat killer available to the public) and the scientific Walsh 16 Ingredient Rat Bait! Laboratory tests show RODAN safe around animals and poultry—get a package that contains enough to kill a thousand rats for only $1.00 from your dealer or mail coupon today. MONEY BACK GUARANTEE.

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Mows 40" Swath

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ALLMAND (Thrifty 250) FARM WELDER

Now! A new 180 amp. welder for ONLY **$149.50**

Build your own machinery with this 180 amp. welder . . . a million uses on the farm . . . fully guaranteed 10 year protection plan. Twin carbon torch completes unit. Welds anything. $24.75 extra. Free literature. Dealer and salesmen inquiries invited.

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NORTHERN GROWN SEEDS: Sweet Clover 16c lb. up. Top quality Red Clover 57c. Mixed Clover and Alfalfa 38c. Alfalfa, Alsike and Ladino Clovers, Brome, Meadow Fescue, Reed Canary and Blue Grass. Write for Free Samples and complete Price List. Grimm Alfalfa Assn., Fargo, North Dakota.

U. S. SAVINGS BONDS ARE SAFE

Farm and Feed-Lot

Make Legume Seed Go Farther

Legume seed is scarce. That makes it important to follow good seeding practices/to get a good stand.

Ed Dyas, extension agronomist at Iowa State College, says you can get better legume stands if you seed less oats as a nurse crop.

For example, drilling two bushels of oats in rows 14 inches apart gave 50 per cent more alfalfa and brome grass plants than when oats were broadcast at the rate of three bushels per acre.

A firm, well-prepared seed-bed is also important. So is shallow seeding. Much legume seed is wasted because it is either sowed in loose soil or is covered too deeply.

Creosote Will Stop Termites

To the Editor: Do you know of any paint which I could use on old lumber to prevent termites from eating it?—F. B. W., Lee County, Iowa.

Impregnating the wood with coal-tar creosote will prevent termites from eating it. If you paint the creosote on with a brush, it will give good protection to the surface. But if you plan to use this lumber for sills, or any place where the wood might remain damp, you had better impregnate it by soaking it in creosote.

"Penta" Preserves Fence Posts

To the Editor: I have some fence posts I would like to treat. What is the best way? — P. Z., Tama County, Iowa.

Most convenient way to treat a small amount of posts on your farm is to use a new compound called pentachlorophenol, or "penta." It comes in several forms. The easiest to use is a concentrated solution that can be diluted with light fuel oil or kerosene.

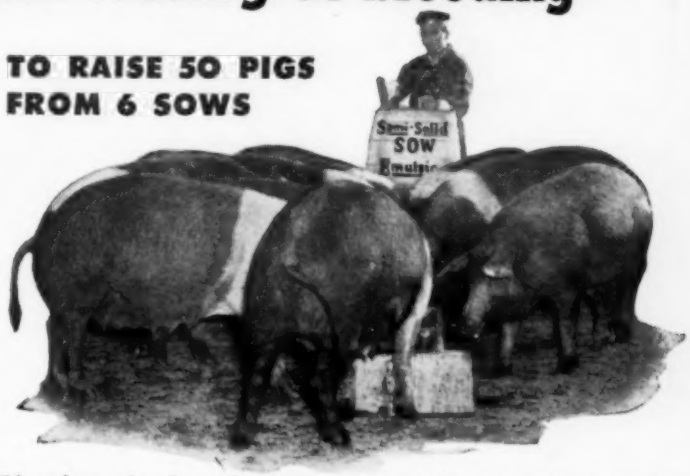
Put the posts in a solution in a tank, weight the lumber down and soak for 48 hours.

"Penta" can be purchased at your local farm supply store or from your lumber dealer.

"I'll admit glasses make him look intelligent — but don't you think they make him look too old?"

start feeding at breeding

TO RAISE 50 PIGS FROM 6 SOWS



Build embryo pigs from the very start. Begin feeding the new Semi-Solid SOW Emulsion the day you breed your sows. That's the *first step* to raise 50 pigs from six sows.

Feed Semi-Solid SOW Emulsion every day to help each sow farrow and save at least eight big pigs. It's the first milk by-product food built especially for sows. It's high in Vitamin A and the B-Complex vitamins. Easy for sows to build into husky pigs — heavy milk flow. Semi-Solid SOW Emulsion enables sows to stay in flesh during suckling. Pig gains after weaning are up to ½ pound a day faster than average.

Yes, Semi-Solid SOW Emulsion is the *first step* in the Semi-Solid System . . . the streamlined feeding, breeding and management plan that's now the talk of the entire hog industry. Time-saving organization of chores and pens — speedy feeding — these enable *one man* to raise 1,000 hogs a year on just 40 acres.

Begin feeding to raise 50 pigs from 6 sows. Get Semi-Solid SOW Emulsion from your feed dealer today. Start feeding it to every sow, boar and suckling pig on your farm.

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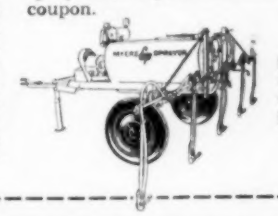
Dept. W3H DANVILLE, ILLINOIS
Mail at once my free copy of "START HERE", the new hand book on sows.
Name.....
Address.....

THE NEW Semi-Solid SOW Emulsion
FOR SOWS, BOARS AND SUCKLING PIGS

"it took MYERS to make it!"

He's right! Who else but Myers . . . serving American farm needs for over 78 years . . . could build a sprayer so all-round useful to farmers? You name the job: spraying field crops, weeds, trees, livestock; whitewashing or disinfecting buildings; fire protection; mosquito and fly control—the new Myers GP Sprayer does them *all*, efficiently and economically. Rugged, compact, easy to handle—Myers General Purpose Sprayer is available in wheel or skid types, power take-off or engine drive. Provides pressures up to 400 pounds for all gun and boom operations, including low pressures for most effective weed control. Capacity is 7 gpm. Equipped with powerful Myers Bulldozer Pump, famous for long-lived dependability. Steel tank is specially constructed for use with any spraying solution. In fact, this new Myers Sprayer is packed with far-ahead features — as is each of the many sprayers in Myers full line. Mail the coupon.



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FOR FARMALL F-20, F-30 & REGULAR MODEL

NEW Behlen GEAR BOX

Here it is . . . a real speed gear for these fine old tractors. Go 9 and 15 m.p.h. on your old model John Deere A or B with a New Behlen Gear Box. Two separate, additional speeds. On Farmall F-20, F-30, or Regular Model, you can do 14 to 15 m.p.h., or if you prefer, you can have 10 m.p.h. gear box for the F-20 or Regular Model. Installed with or without Lift-All Pump.

Behlen Gear Box really cuts tractor time. No more tiresome inching along when you can use speed. Helps do many more jobs in a day. Ideal for bucking hay, rotary hoes, long hauls, etc. Does not interfere with present gears. Bring your old tractor up-to-date with a New Behlen Gear Box.

Close-up of Behlen Gear Box on John Deere.

For Farmall H or M—Useful Middle Gear

Equip your H or M for all 'round work. New Behlen Gear Box adds handy in-between speed of 10 m.p.h. Not too fast, not too slow for many field jobs. If you prefer, you can have 7 m.p.h. gear box.

Write today for literature, where to buy. In writing, please indicate tractor you are interested in.

Behlen Manufacturing Co., Dept. 702, Columbus, Nebr.

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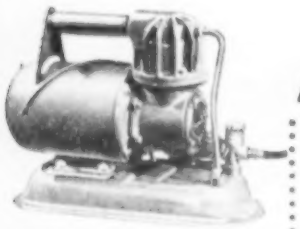
Every day more farmers tell us this Tokheim Portable Air Compressor saves work and worry—gives more time for the things they want to do. It's a tool no farmer should be without. Operates from 110 volt electric outlet, gasoline engine, or from tractor power take-off. It's the easy way to do scores of everyday difficult jobs—around the barn or out in the fields. Ruggedly built. Moderately priced. Thousands in use. See your implement dealer or mail coupon below for literature.

HERE'S WHAT IT DOES

GREASES implements, cars, trucks and machinery • **INFLATES** car and tractor tires • **PAINTS** fences, buildings, screens, furniture, etc. • **SPRAYS** DDT, animal sprays, insecticides • **CLEANS, DUSTS** machinery and equipment.



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1618 Wabash Ave., Fort Wayne 1, Indiana
Please send literature describing your line of electric and gasoline powered air compressors for farms. I am an ☐ owner ☐ dealer.
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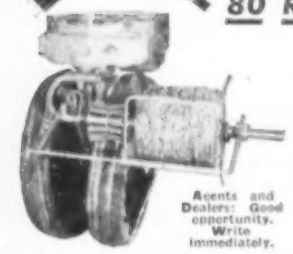
USE AIR POWER—SAVE YOUR POWER!

EASYROLL **TRACTOR WIRE WINDER**

80 Rods in 3 Minutes



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Agents and Dealers: Good opportunity. Write immediately.

Dept. 1, Wire Winder Mfg. Co., Mendota, Ill.

Gentlemen: Please send "80 Rods in 3 Minutes" folder and prices on EasyRoll Wire Winder.

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Brooders such as this one—and heat lamps—save an average of one pig per litter. They eliminate danger of fire if they are properly installed and if wiring in farrowing house is adequate.

Farm News Briefs

IOWA YOUNG PEOPLE nominated for the 1949 International Farm Youth Exchange Project are Marcia Gaston, Clay county, and Durward Lyon, Tama. Alternates are Marie Book, Buena Vista, and Eugene Woodcock, Bremer. Iowa nominees will compete with those from other states for chance to spend next summer on European farms.

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TWO IOWA GIRLS have been named winners of $100 General Foods college scholarships for outstanding 4-H Club food and nutrition projects. They are Donna Eichelberger, Muscatine county, and Dorothy Swanson, Montgomery county.

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FOUR IOWA county extension directors have resigned their jobs to start farming. They are: Leo Sturgeon, Washington county; Ralph Todd, Jefferson county; C. E. Judd, Winnebago county; Paul Elam, Greene county. James Taylor, former youth assistant in Des Moines county, succeeds Todd as Jefferson county director.

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TOP OFFICERS of the Iowa State Dairy Association were re-elected last month. They are: President, Scott Ellis, Dallas county; vice-president, W. J. Campbell, Buchanan; secretary, E. S. Estel, of Waterloo. New directors are Dr. C. Y. Cannon, Iowa State College, and C. M. Wilson, Iowa Farm Bureau Federation.

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ELECTED as directors of Iowa Swine Producers Association last month were: Barney Lathrop, Pocahontas county; Karl Hoffman, Ida; Harry Fisher, Dallas; Tom Manley, Story.

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ROBERT LAGE, Scott county, president of the Iowa Guernsey Breeders Association, is new chairman of the Iowa Purebred Dairy Cattle Council. Vice-chairman is Donald Jones, Page county, president of Iowa Jersey Cattle Club.

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NUMBER of grain-eating animals on Iowa farms January 1 was 6 per cent above a year earlier. A three-year decline in cattle numbers has stopped, tho cattle inventory still is 15 per cent below the 1945 high. Hog numbers were up 9 per cent, sheep were down for the seventh straight year.

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IOWA BEEF PRODUCERS Association has named these officers for 1949: President, J. C. Holbert, Washington county; vice-president, L. R. Curran, Cerro Gordo; secretary-treasurer, Roy O'Donnell, Story.

▲ ▲ ▲

TOP FIVE corn growers in the 1948 Iowa 10-acre yield contest live in Mahaska county. They are: Carroll Brown (224.2 bushels per acre); Wirt Brown (196.4); Marion Harner (188.15); Andy Lamis (187.11); Gary Heyveld (186.61). Four others are from Shelby county: Forrest Adams (180.19); Dale Sorenson (174.18); Perry Mayne (172.88); Wendell Lytle (170.51). Rounding out the top 12 are Foster Brothers, of Madison county (175.27); Orville Aves, Marshall (174.18), and John Saunders and Son, Crawford (170.64).

▲ ▲ ▲

SEVERAL IOWANS are in a group of 30 midwest women now on a 30-day tour of western Europe. The trip was organized by Mary Foster, Omaha radio commentator. Iowa women in the group include: Hattie Giese, Harrison county; Mrs. Walter Klopping, Pottawattamie; Mrs. J. W. Knutsen, Palo Alto; Mrs. S. O. Knudson, Buena Vista; Mrs. J. J. Meyers, Carroll; Mrs. Ralph Olson and Mrs. Lawrence Ricke, Hamilton; Mrs. Louise Pitka and Mrs. Florence Steffy, Poweshiek.

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COMING EVENTS: March 5-13, National 4-H Club Week; March 10, National Pasture-Forage-Livestock Conference, Omaha (stockyards); March 10-11, Farm Forum, Minneapolis (Hotel Radisson); March 11-12, Iowa State Spring Market Hog Show, Cedar Rapids (Hawkeye Downs); March 18-19, Minnesota State Spring Barrow Show, Albert Lea; April 21-23, Iowa FFA Convention, Cedar Rapids.

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First Aid for Stock

Some Poison Danger In Sweet Clover

To the Editor: Does it hurt horses to turn them on sweet clover early in the spring or any time thereafter?—Woodbury County, Iowa.

Sweet clover is safe as a pasture for horses if the clover is not allowed to get too large and too stemmy. A mold sometimes develops in the larger stems, and may slowly poison animals.

Cattle seem to be more subject to this poisonous effect than are horses. But there will be no danger to either if the sweet clover is pastured heavily enough to keep the plants small and fine-stemmed.

Vaccinate For Erysipelas?

To the Editor: Last year, both my spring and fall pigs had erysipelas. This year, I want to give my pigs the double vaccine treatment. What would be the best time to do the job? Is there danger of the sows getting erysipelas from the vaccinated pigs?—B. A., Whiteside County, Illinois.

If you plan to use the double treatment, or serum and culture method, of immunizing little pigs, the treatment should be when the pigs are about 10 days old.

The farrowing pen should have been thoroly cleaned and disinfected before farrowing. The pigs should not be allowed out of the pen before vaccination.

If you vaccinate the pigs, you would have to vaccinate the sows also. You would be bringing into the pen a virulent culture of erysipelas germs. The sows would be exposed, and must be protected.

Too Much Corn For Sows

To the Editor: My brood sows are running with the fall pigs, and get all the corn and 35 per cent protein they want, self-fed. Is this too much protein?—V. V., Jo Daviess County, Illinois.

Feeding your sows a high protein ration probably won't hurt your sows or their litters. But it isn't a good idea to feed the same rations to brood sows and to market pigs.

Usually, the sows get too fat. Also, it's usually more expensive.

If you want to self-feed your sows, here's a ration you might use: Grind together 12 bushels of corn, 16 bushels of oats, 600 pounds of good legume hay. Add 100 pounds of the 35 to 40 per cent protein you use. A sow will eat six to eight pounds of this mixture a day.

Let the sows have access to a good mineral mixture and plenty of water. To make sure they get exercise, put the feeder with the minerals a few rods away from the hog house.

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Treated seed helps produce good stands because it produces more vigorous seedlings. It helps cracked and injured seed germinate. Recommended rates are 1 to 1½ ounces of Ceresan per bushel of seed Flax. Seed should be treated at least two days before sowing. Treat your Flax with either New Improved Ceresan or Ceresan M—*it's the cheapest crop insurance you can buy!*

"I always treat my seed Flax with New Improved Ceresan", says Chris Linnertz, Minot, North Dakota. "Over a period of years, my Flax has averaged about 15 bushels per acre. In 1948, 21 acres of B-5128 which had been sown to Flax for the second straight year yielded 30 bushels per acre. My entire 130 acres averaged 20 bushels."

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What Is Farm Stake In World Affairs?

Institute Speakers Discuss Agriculture's Interest In U. S. Aid To Other Countries

THEME of the 11th annual National Farm Institute in Des Moines last month was "American Agriculture in World Affairs." Printed below is the meat of what some visiting big-wigs had to say on this subject.

For a summary of the Institute's hottest argument—over farm price supports—turn to page 22.

Charles F. Brannan, U. S. secretary of agriculture:

If we assist backward areas to increase their agricultural production, will we thereby set up competitors for Iowa hogs and Carolina cotton and Kansas wheat and western beef?

Far from raising up dangerous competitors for American farmers, I believe that a sensible, practical program of world agricultural collaboration will increase world and domestic markets for American farmers.

If our nation is to play its full role in world affairs, it is essential that our own agricultural structure be repaired by the best program it is possible to devise.

H. R. Tolley, director of economics, Food and Agriculture Organization of the United Nations:

An expanding economy with full employment, a government-sponsored food allotment program, a universal school lunch program, a nation-wide program of education in human nutrition, together with growth of population, would bring about a progressive increase in the demand for and consumption of food within the United States.

But the agricultural resources of the United States are so great that their full use would produce more than enough food to meet domestic demand.

The demand of other nations for food from the United States may decline in the years ahead unless we reduce trade barriers and write international commodity agreements.

And we should aid in the development of undeveloped countries so their peoples can increase greatly their consumption of food, clothing, shelter and the products of industry.

Philip Jessup, United States ambassador-at-large:

Our security and prosperity in this country depend on security and prosperity in other areas of the world.

The United Nations is still less than four years old. It is an infant organization. If we stop and re-examine its real nature, I think we come to the conclusion that it is not a failure, but that it is doing its real job and doing it well.

What we have done and are doing is to join in bringing the nations of the world closer together—in the United Nations itself and in groups of states which have common interests.

Wilfred J. Hinton, Institute of Bankers, London, England:

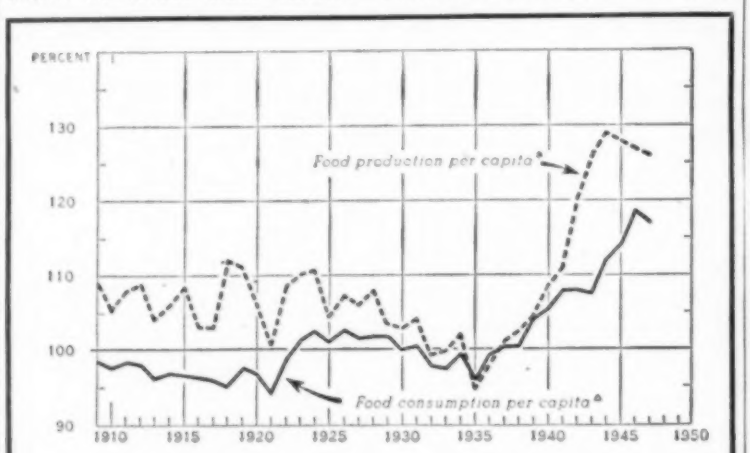
The web of world trade is slowly woven in time of peace out of millions of individual trading deals. That web is torn to pieces in every great war.

Our common task today is to make a new web of trade. The task is almost superhuman. Time is needed.

The European Recovery Program gives Europe time it needs to make changes. Once Europeans have established themselves and are paying their way, then the United States can proceed to develop the backward regions of the earth and build a new web of trade and payment.

D. A. FitzGerald, director, food and agriculture division, Economic Cooperation Administration:

Primary purpose of the Marshall Plan is to re-establish west-



More Food Per Person

The dotted line on the chart above shows the increase in food production per person in the United States. Food consumption has gone up, but not so fast. What happened to the food we produced, but didn't eat? We shipped it abroad. Now if exports drop off, can folks at home eat—and pay for—everything farmers are producing? Figures from Bureau of Agricultural Economics.

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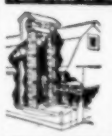

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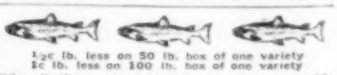

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Northern Pike, boneless, 30 lb. box	$8.40
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Yellow Perch, boneless, 10 lb. box	$3.00
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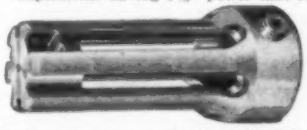

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ern Europe's industry and agriculture. Yet pressure groups seem to regard ECA as a dumping ground for surplus commodities.

The answer to the problem of rehabilitating Europe is increased production for ECA nations. These goods should be exported principally to the U. S., in order that a dollar return may be obtained.

American business and agriculture are going to have to allow imports or the burden will be forever on the American tax-payer to pay the bill for Europe.

William H. Stead, vice-president, Federal Reserve Bank of St. Louis:

Fiscal and monetary policy alone can not iron out the swings in the business cycle. But it can aid in moderating the up-and-down swings.

Fiscal policy has three aspects: Spending, taxing, debt management.

At this period of economic uncertainty, we should delay government spending for public works and other new programs — local, state and federal. We should adjust tax rates to maintain a treasury surplus of at least three billion dollars.

As to debt management, we should make every effort to increase the sale of savings bonds to private investors.

Allan Kline, Benton county, Iowa, farmer and president of the American Farm Bureau Federation:

The 1948 Agricultural Act (flexible price supports) may be successful and it may not. But we should give the program a fair trial before making any major changes.

Agricultural production remains stable in contrast to industrial production. Our real problem is to find a way to maintain continuous buying power for the consumer, in order to continue distribution of farm products.

Clarence Francis, chairman of board, General Foods Corporation:

Neither the farmer nor anyone else should demand from our government a perpetual and unchanging price support system as a vested interest.

No one guarantees to business its prices or its profits. Farmers, as responsible citizens, should examine the consequences of maintaining price supports at static levels without regard to national and world demand for what you have to sell.

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40 Butyl Ester—3.3 lbs. to gal. (2.64 lbs. 2-4D acid)
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WEEDESTROY kills most broad-leafed weeds and controls many others. Some of the weeds that are more difficult to kill can be eliminated by repeated sprayings. You can depend on WEEDESTROY to do the best possible job. It does not corrode spraying equipment. No residue that is hazardous to animals is left on plants. Control weeds in corn, flax, small grains, woody plants. Spray fence rows, roadsides, ditch banks and cropped land. Kill weeds the chemical way. Use WEEDESTROY—a dependable product manufactured by agricultural chemists. WEEDESTROY has been tested and proved effective during four crop seasons on thousands of acres. You'll like to use WEEDESTROY. It costs less to use the best. Ask for Riverdale WEEDESTROY and kill the weeds that rob your profits.

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Maybe you will want to try some of the ideas you read about in this column. If you do, go ahead. But, remember, in many cases you will be experimenting. In order to keep you posted on new developments in agricultural research, some projects are reported when they are still in the "testing" stage. When that happens, publication here is not to be taken as an unqualified recommendation.

Seed Treatment Also Speeds Growth

The seed treatment, Spergon, not only protects crop seeds against fungus diseases, but also acts as a growth stimulant.

H. D. Tate, director of the laboratories for the manufacture of the seed treatment says tests indicate that the stimulating effect alone can increase the yield of corn by seven or eight bushels per acre.

New Hybrid Sweet Corn—Iochief

Iowa State College horticulturists have developed a new hybrid sweet corn. It has been released to commercial seedsmen and will be available for 1950 plantings.

Named Iochief, it has exceptional moisture retaining qualities, giving canneries and processors several days leeway in harvesting. Other advantages claimed are a very high "cutting" percentage, good drouth and heat resistance, and absence of suckering.

Fertilize Meadows For Big Returns

"Sod lands supply our lowest-cost livestock feed. Sod lands are also the best contributors to soil productivity and high crop yields," says D. R. Dodd, of the Ohio experiment station.

"Results show it is highly profitable to apply more fertilizer when seeding meadow and pasture crops in small grains. Or additional applications later on sod will pay off."

Tests on soil already in a high state of fertility — producing 85 bushels of corn, 23 bushels of wheat and three tons of hay per acre—showed that 500 pounds of 2-12-6 per acre boosted wheat yields 14 bushels and hay yields 1,300 pounds.

Soybeans May Need Iron

You may have seen soybeans turn yellow and be stunted on some alkali or high-lime areas. Lack of available iron in the soil is the cause, according to L. B. Nelson and W. H. Allaway, Iowa State College soils men.

They recommend spraying with 10 pounds of ferrous sulfate per acre. The material is sprayed on the leaves. It must be dissolved in soft water or it will clog the sprayer.

Nelson and Allaway report that soybeans so treated appeared normal in less than a week. Farmers in Benton, Hancock and other Iowa counties report similar results and good yield increases from the treatment. Cost of the material is usually less than 50 cents an acre.

Hercules Releases Trade Name

In response to the need for a simple and generally acceptable name for the insecticide known as "chlorinated camphene," Hercules Powder Company has relinquished the trade-mark name of "toxaphene."

The word "toxaphene" has been accepted by the Bureau of Entomology and Plant Quarantine and others as a coined common name for chlorinated camphene having a chlorine content of 67 to 69 per cent.

Control Grubs On Area Basis

Farmers may want to consider community-wide action to fight cattle grubs on an area basis this year. USDA officials, livestock organizations and others are considering area action as a means of reducing the annual 100-million-dollar loss from this parasite.

Losses come from damage to the most valuable parts of the hide, and from necessity for trimming damaged meat from carcasses.

A recent test by a large packer showed an average loss from spoiled hides and ruined loins of $22 per head on 57 steers weighing 1,254 pounds. In addition, the man who fed those cattle took a loss in smaller gains per day.

Hormone Lessens Frost Damage

A substance called "Horms No. 4," a compound of vitamins and hormones, has been used to treat tomato and other seedlings. Treated plants were planted in staggered rows with untreated plants. When light frost came, the treated plants lived, produced normal crops. The untreated plants were killed.

John A. Thomson, president of the Vitamin Institute, in North Hollywood, Calif., explains that the complete means by which the compound operates are not fully understood.

The substance can also be used after a frost to help recovery of untreated plants, shrubs or trees. It causes new root systems and new foliage if the plant was not frozen too completely.

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Simple mailbox stand can be made from an old milk can. Box is bolted to a piece of bent pipe. Fill milk can with dirt or sand, cap with cement.

Poor Soybean Germination

IF YOU plant soybeans this year, have them tested, warns E. P. Sylwester, head of the Iowa State College seed testing laboratory.

Soybean seed this year has been the poorest, except for one other year, in the past 15 years. Normally, 95 per cent germination is good. This year, 85 per cent is good.

Too many beans were hurt during harvesting last fall. They were dry, and combining caused broken seeds and injured embryos.

But, if you test your seed, you can plant enough more to get the stand you want.

You can make a test at home or send a sample to the seed testing laboratory at Ames. Take samples from several sacks or parts of the bin, mix them, and send about a quart of seed for analysis.

If you want to test at home, Sylwester recommends using a wooden box filled with sand. Sand is better than a "rag doll," because you won't count a weak sprout as a good one. A weak sprout won't push up thru the sand.

Count out three or four lots of 100 seeds and plant one to one and a half inches deep. Water and keep at room temperature. You can count the seeds about a week after planting. Average all lots.

Will Alfalfa Roots Clog Tile?

To the Editor: I own a nice, level Iowa farm, well tiled. Will alfalfa root down to my tile and block them?—H. S., Livingston County, Illinois.

When tile is laid shallow, three feet or less, and when a field is left in alfalfa for some time, it has been known to send roots into tile and block drainage.

If your tile are in reasonably deep, and you follow a rotation system, you should have nothing to fear. In fact, alfalfa, with its vertical tap-root, will help drain level ground long after it has been plowed. Water follows the decaying tap-roots down into the soil, where tile takes it away.

An Invitation To All Feeders of CATTLE and SHEEP

If you are interested in LOW COST gains on steers. If you are interested in carrying your cattle and sheep through from now until grass without hay—and doing it VERY ECONOMICALLY—you owe it to yourself to make a trip to Coon Rapids, Iowa.

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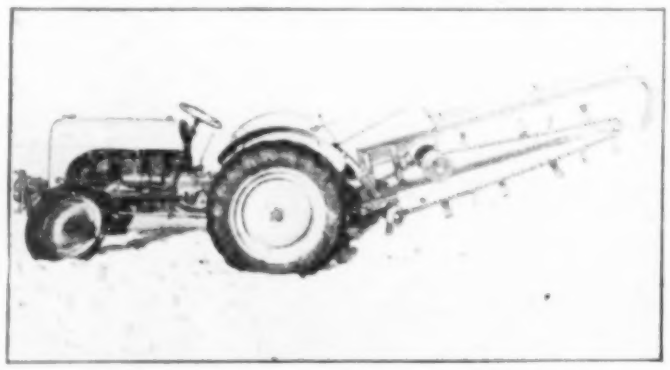
Lawn Mower has sickle-bar action. It is powered by a one-horse-power single-cylinder gasoline engine of the two-cycle type. The 22-inch steel sickle is designed to cut tall weeds and grass as well as lawn grass. Cutting height is adjustable. Made by Winpower Manufacturing Co.



Trench Digger is offered which is said to fit two-plow tractors with standard power take-off. Digs ditch 7½ to 10 inches wide and 4 to 5 feet deep. Can be used for tiling, pipe-laying, etc. Announced by Mississippi Engineering Co., Inc.

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Advice About Sprayers

WHEN buying a farm sprayer, pick one that can handle all the farm spraying jobs. That's the advice of Dale Hull, agricultural engineer at Iowa State College.

Approximately a million acres of corn and 500,000 acres of small grain were sprayed for weed control in Iowa last year. Many acres were treated for corn borers.

Weed control specialists and entomologists look for a sizable increase in the number of acres sprayed for weeds and for corn borers in 1949.

Hull points out that there are three types of jobs to be considered when selecting a sprayer: weed spraying, corn borer and fly spraying, and cattle grub and livestock sanitation work.

Pressures required for farm spraying operations range all the way from 30 pounds per square inch in weed control work to 250 pounds per square inch for fruit trees, cattle grubs and lice.

Hull recommends a sprayer that will produce up to 250 pounds per inch pressure.

Don't buy sprayers with rubber impeller type pumps. They are sensitive to spray materials that have light petroleum bases, and Iowa farmers have not found them satisfactory, Hull says.

Built-in or external by-passes are recommended as pressure regulators on positive action pumps.

The suction hose needs to stand a pressure of 100 pounds, and the high pressure hose should be able to stand a pressure of 400 pounds.

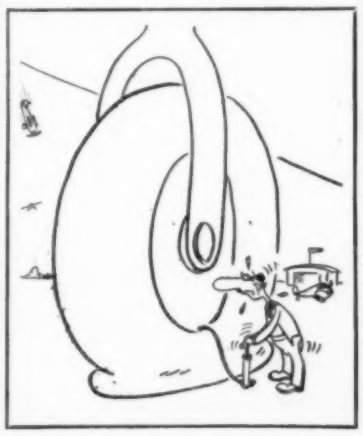
In order to keep a nozzle from clogging, Hull advises having an 80 or 100-mesh screen in place over the intake end of the hose leading from the sprayer tank.

For the best coverage on weeds, use a nozzle producing a flat or fan-shaped spray pattern. For insecticide spraying in corn borer control, use a nozzle that gives a solid cone-shaped pattern.

Nozzles having various spray angles and capacities can be purchased for application from as low as two gallons per acre up to any quantity desired.

Nozzle tips can be bought which will produce either type of spray pattern, thereby eliminating the necessity of buying complete sets of each type of nozzle.

Sprayer booms and tanks made of non-corrosive material, or that are protected by special coatings, such as paint, plating or galvanizing, will give more years of satisfactory service, Hull says.



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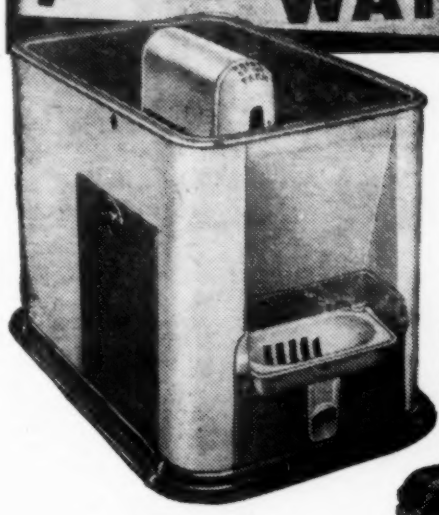


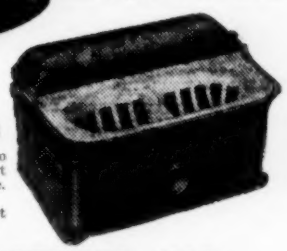
★ Waters over 300 head of stock.

★ Sanitary — easy to clean.

★ Heat by Electricity, Kerosene.

★ For cattle, sheep, and hogs.

***Pride of the Farm* waterers are made to last indefinitely. Have *fool-proof* automatic pressure valve.**



MODEL A-4
AUTOMATIC PIPE LINE HOG WATERER

Here is a new improved hog waterer. Made to last a lifetime. Rugged. Built of heavy cast iron. Heats automatically. Saves labor—time. Works equally well on pressure or gravity. Now on display. Write today for name of nearest dealer.

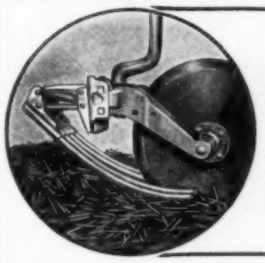
HAWKEYE STEEL PRODUCTS, INC.
WATERLOO, IOWA

New HARROW EVENER

Needed on every farm for high speed, light draft harrowing. Makes 4 or 6 section harrow pull, turn and handle like 2 section harrow. Pulls through gates. Holds all sections in line.

Saves fuel. Saves time. Mounted on rubber tired wheels. Acts as harrow or disc transport. Send for FREE circular.

Schenkelberg MFG. CO. CARROLL IOWA



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STUTE TRASH GUARDS Endorsed by Nat'l Plowing Champions

Gives you faster, easier, cleaner plowing with less time, less work. Completely turns under all trash. Positively will not clog. Spring steel—patented "knee action" principle—will not interfere with jointer. Quickly attached—nothing to take off your plow. Tested and proved. Lowest priced.

See your dealer or write giving make and model of your plow, number of bottoms and whether it has cast or steel coulter yokes.

POSITIVE TRASH CUTTING—PLOWING AT ITS BEST

Stute Mfg. Co., 750 Spring St., Varna, Illinois

IODINE IN FEED

helps insure healthy livestock

Iodine is an essential element in the nutrition of farm animals. When used in formula feeds, mineral mixtures and salt blocks, Iodine helps *prevent:*

- Goiter.
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NOW IS THE TIME TO LOOK AT YOUR EQUIPMENT

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GO TO YOUR LOCAL IMPLEMENT DEALER

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HE WILL HELP YOU WITH PARTS AND REPAIRS

Today, I'm looking ahead

...I know now's a good time to continue building my backlog of U. S. Savings Bonds

"Now is the best time for a long look ahead!

"So I'm looking beyond today's high income to the time when things may drop off a bit...or more than a bit.

"I'll be ready. A good part of my extra income today is going *regularly* into U. S. Savings Bonds.

"They pay $4 at maturity for every $3 invested... A mighty good return when you figure that our Government's behind the deal!

"I'll have funds later to buy land at prices I want to pay. There'll be money, too, for home improvements...for a complete college schooling for my youngsters...and for enjoying my own later years...And it's good to know I'm doing the best thing for my country as well as myself!"

Ask your Bank about the new Bond-a-Month Plan.

Protect your future

Buy and hold

U. S. SAVINGS BONDS

LIVESTOCK NEWS

The Chester White sale of C. T. Keen & Sons, Legrand, Iowa, was held on February 11. It was a fine winter day, and the sale drew a large attendance. Breeders were present from several states, and farmers from a wide section of Iowa. Those present were greatly impressed with the two outstanding herd boars—Streamliner and Perfector — which are perhaps the best pair of herd boars Keen & Son have ever used. The top of the sale was Lot 5, by Iowa Chief, a litter-mate to the 1948 Iowa reserve grand champion barrow, and sold mated to Streamliner for $255 to Albert H. Stuart, Newhall, Iowa. Lot 7, a daughter of Commander and bred to Streamliner, sold for $250 to Laurence N. Baldner, of Dallas Center, Iowa. Lot 22, by Fashion's Model and bred to Perfector, sold for $200 to Harold Miller, Janesville, Iowa. Her litter-mate, Lot 23, mated to Perfector, sold for $200 to Guy Smith, Little York, Ill. The 50 tops sold for a general average of $150, which was one of the good sales of the year. They went to buyers in Iowa, Illinois and Nebraska. Auctioneer was Clair Mason.

The Polled Shorthorn dispersion of T. A. Collins, Adel, Iowa, February 12, drew a good crowd from a wide section of Iowa. Mr. Collins sold a well-bred offering, presented in just practical farm condition. The herd bull, Ceremonious Commander, sold for $500 to Virgil I. Marshall, Adel, Iowa. Linlo Grenadier went at $320 to Howard Weeks, Slater, Iowa. Collynie Progress sold for $305 to Ernest Knoll, Grimes, Iowa. The top female was Red Star (and calf), consigned by a neighbor, Howard Weeks, and sold for $475 to Ed Berghoofer, Hampton, Iowa. Red Mist 424 sold for $340 to Kenneth Wasson, Dexter, Iowa. Pansy C. went to Virgil I. Marshall at $380. Marr's Cornetta sold for $345 to Frank Pinkney, Macksburg, Iowa. Pansy E. went to Otto Johnson, Lohrville, Iowa, at $340. Antonie Graves, Williams, Iowa, secured 10 females. The six bulls, including July and August calves, averaged $296, with 31 cows and heifers at $301, with the sale making a general average of $300. All went to Iowa buyers. Auctioneer, J. E. Halsey.

The Ross O. Willey & Son Chester White sale, held at Sioux City, Iowa, February 7, attracted a fair attendance. The high figure of $195 was reached twice during the auction. Don Perkins, Stanton, Neb., paid this figure for Lot 3, a daughter of Exploiter Again, carrying the service of Raleigh 903. Richard Trudian, Vermillion, S. D., also paid $195 for Lot 42, a daughter of Sunnycrest Superior, carrying an early litter by Willey's Silver Balancer. C. A. Thompson, Ute, Iowa, was one of the heavier buyers, taking a half-dozen of the better gilts. Clifford Hobbs, Hornick, Iowa, purchased five good gilts well worth the money. The 41 lots averaged $165. J. E. Halsey, auctioneer.

Holm Bros., Corwith, Iowa, enjoyed a large crowd at their Shorthorn dispersion sale, held at Webster City, Iowa, February 8. The sale was under the able management of Mervin Aegerter, of Seward, Neb., who had things well planned for the convenience of the buyers. Top price on the bull offering was reached on the senior herd sire, Curtiss Candy Modern. This six-year-old roan son of Edellyn Modern Mercury sold for $550 on the bid of Walter Eno, Sheffield, Iowa. Morris Kreamer, Alden, Iowa, paid $395 for a good dark roan son of the senior herd sire. The five-year-old Dalneny Missie 7th, by Marcllbar Sirdar, commanded the top price in the female division. Otto Johnson, Lohrville, Iowa, paid $700 for this good red cow, selling with a roan bull calf at side. W. E. Summerville, Gray, Iowa, paid $400 for the good red Augusta 15th, by Edellyn Glastullich 2d. The roan Augusta 12th, by Haylands Dreadnaught, was purchased on order by Clem Larson for $575. The 31 females averaged $293, which made a general average of $297 on the 41 lots. All the cattle were sold to Iowa buyers. J. E. Halsey was the auctioneer.

The Northwestern Iowa Polled Hereford Breeders found a packed pavilion for their annual show and sale, held in Sioux City, February 10. Emil Rezac, of Tabor, S. D., turned in a good job of judging the pre-sale show. Champion bull award was placed on the coming two-year-old son of Battle Domino 13th, consigned by P. M. Christenson & Sons, Lone Rock, Iowa. This good herd header sold for $780 to Julius DeJong, Orange City, Iowa. O. J. Wadeson & Son, Fingal, N. D., paid $600 for the reserve champion bull, consigned by Berkland Bros., Inwood, Iowa. Elizabeth Sharp, Strandburg, S. D., gave $505 for the good young bull consigned by Lee Puhrmann, Paullina, Iowa. Eight bulls sold for $500 and over. The champion female was consigned by Westhaven Place, Denison, Iowa. This choice two-year-old daughter of The Comprest 23d was well along in calf, and sold for $600 to D. D. Heide, Bingham Lake, Minn. The reserve champion female was an aged cow consigned by Chas. Zangger, Larchwood, Iowa. This good cow sold with a rugged bull calf, and the pair combined to bring $445. The 12 females sold for an average of $31[illegible] with the 41 bulls averaging $396, making a general average of $377 on the 53 lots. The cattle were distributed as follows: Iowa 40 head, Minnesota 5, South Dakota 5, Nebraska 2 and North Dakota 1. Ed Krise, Rock Rapids, Iowa, did an excellent job of managing the event, and Chas. Corkle turned in good work on the auction block.

The Achievement Sale of Albert H. Stuart, at Eldorado Stock Farm, Newhall, Iowa, February 19, brought out Chester White breeders from many states and hog men from all sections of Iowa. Those present were greatly impressed with Mr. Stuart's herd boars, and Super Climax, the champion, was admired by many. A new record was established by selling the top sow of the year in Lot 6, a daughter of Chief Model Jr., bred for March farrow to Super Climax. She sold for $560 to Ray Koch, Breman, Kan. He also paid $410 for Lot 40, a daughter of Oak View Type and bred to Super Climax. Lot 36, a daughter of Dakota Elmo, sold for $400 to R. A. Baumgarten, Durbin, N. D. The 53 cataloged sows made another record, the top average for the breed in 1949, when 53 lots averaged $214. Only two sold on mail order. All buyers were present and made their own selections. Auctioneer, J. E. Halsey.

Those attending the Duroc Jersey sale of Melvin Jensen, of Everly, Iowa, which was held at Spencer, Iowa, February 12, found a useful offering that proved to be good values for the money invested. Farmer buyers were on hand and took most of the offering. Top of the sale was a gilt, Lot 54, a daughter of Golden Block and carrying an early litter by the good herd bull, Orion's Best. The next high gilt sold for $150 to Kenneth Wichmann, Ruthven, Iowa. Willard Brown, Emmetsburg, Iowa, got a very good, large, brandy gilt carrying an early litter for the $140 figure. Henry Klein, Emmetsburg, Iowa, took five of the better gilts. All the gilts sold to Iowa buyers except one, which went to E. P. Wulf, Lakefield, Minn. The 58 head averaged $101. John Hall was the auctioneer.

A moderate sized but spirited bidding crowd gathered at the Sioux City Horse and Mule Barn for the Chester White bred sow sale, February 21, of B. F. Held & Sons, Hinton, Iowa. Roy Koch, Bremen, Kan., paid the high of $280 for Lot 8, carrying an early March litter by H. Sparkler Trend. John Tabke, Moville, Iowa, paid $240 for the junior champion gilt of the big Spencer Fair, mated for a middle-of-March litter to this boar. James Le Strange, Terril, Iowa, gave $235 for a choice gilt carrying this boar's service. Clarence Smith, Paullina, Iowa, also paid $235 for one of the top gilts. Harold Walker, young 4-H Club boy from Paullina, Iowa, gave $230 for one of the prettiest gilts of this good offering, carrying an early March litter by the H. Sparkler Trend boar. Iowa buyers took the bulk of the offering, buying 37 of the gilts. Nebraska buyers took three, with Minnesota getting two and South Dakota taking one. The 43 gilts averaged $154. J. E. Halsey sold the offering.

The annual spring sale of bulls held by the Central Illinois Angus Breeders, at Congerville, Ill., February 14, drew a very bad day. However, a fair crowd turned out. The breeders presented a very fine offering. The top bull, Eileenmere 926, sold for $600 to Boyd Eude, Wellman, Iowa. Blackcap Lassie's Bertrum Lad went at $500 to H. J. Schoonover, Washington, Iowa. Bell Boy D. sold for $5[illegible] to C. S. Rees, Simeon, Neb. Blackcap Burgess H. 2d went to Rees at $500. Eileenmere H. 2d sold for $505 to Chester Augustine, Carlock, Ill. Sharps Blackcap C. sold for $500 to Tracey Bros., Williamsville, Ill. The 81 head sold for a general average of $312. They went to buyers in Iowa, Illinois, Missouri, Nebraska, Indiana, Louisiana and Alabama. Auctioneers, Roy Johnston and Ray Sims.

The Spotted Poland sale of A. J. Anderson & Son, Kellogg, Iowa, which was postponed from January 29 to the night of February 12, drew another severe evening. However, they went ahead with the sale. Lot 3 was top gilt, selling for $720 to Ed Stone, Chariton, Iowa. No. 1, at $400, went to Ed Stone. John Burkland, Cresco, Neb., paid $575 for Lot 15. F. L. Jackson & Son, Lytton, Iowa, took Lot 8 at $375. Albert Hartke paid $355 for Lot 12. Raymond Loy, Ortonville, Minn., got Lot 10 at $315, and Herbert Lister, of Bloomfield, Iowa, got Lot 4 at $325. Mr. Anderson sold a wonderful offering. The crowd present was sure pleased with the Majestic boar. The 40 head averaged $2[illegible]. The Andersons have some choice gilts left. Anyone interested should write at once.

The Duroc Jersey sale of Elmer Willey, held at the farm, February 7, averaged $162 on 61 bred gilts. Top gilt sold for $375 to Harvey Deets, Gibbon, Neb. E. J. Dinsdale, Traer, Iowa, paid $245 for another. Gilkey Farms, Owatonna, Minn., paid $330. Most of the gilts sold to Iowa buyers. John Hall was the auctioneer.

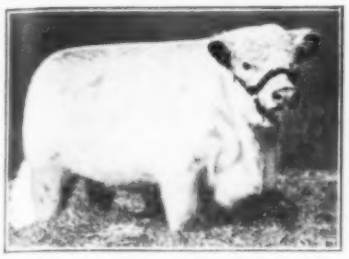
LARSON-LEITING-GINGERY & BYRNES

SHORTHORN SALE

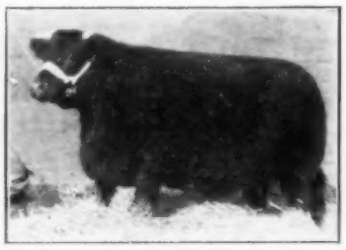
Farmers' Sale Pavilion at 1:00 P. M.

CARROLL, IOWA, THURSDAY, MARCH 24th

14 HERD BULL PROSPECTS — 40 CHOICE FEMALES
11 COWS WITH CALVES AT FOOT — 15 BRED COWS AND HEIFERS — 14 ATTRACTIVE OPEN HEIFERS



SNI-A-BAR CONTROL, sire of Sni-A-Bar Controlor, the bull in 1947 Bellows-Cochel sale, now in service in Emery Larson herd.



RANSOM VICTORIA, one of the best. Dam a daughter of the International grand champion, SUNRAY. Bred June 26th to Morlunda Prince Peter.

Here is an excellent opportunity to buy breeding stock that has been working for its owners. A choice selection from three strong herds that allows a wide choice in blood lines and individuals. There are several top herd bull prospects, a strong group of cows with calves at foot and a nice selection of bred and open heifers.

EMERY LARSON, HARLAN, IOWA, sells 10 bulls and 24 females in order to sell the estate of his late father, Geo. Larson. The bulls are all yearlings and senior calves. Three are sons of **SNI-A-BAR CONTROLOR** 2351724 and seven are by **SUNBEAM JOFFRE 2nd,** a grandson of the Bellows-bred Show Bull, Parkdale Supreme. The females include eight cows with calves at foot and rebred, seven bred heifers and nine open heifers. The cows are daughters of such bulls as Edellyn Martins Mercury, Cruggleton Aviation and the bulls mentioned above. All are bred to Sni-A-Bar Controlor. The Larson herd has produced more prize winning steers at the Ak-Sar-Ben Stock Show than has any other herd.

HERMAN B. LEITING, ARCADIA, IOWA, sells 3 bulls and 7 females. One bull is by Morlunda Prince Peter and a real prospect, the other two are by Helfred Romeo. There are three young cows with calves at foot by Morlunda Prince Peter and rebred. The other four are young cows and heifers, all mated to Morlunda Prince Peter. The females include four daughters of **RANSOM SELECT** and others by **EDELLYN GOLDEN COUNT** and **DIVIDE STATESMAN. GINGERY & BYRNES, HARLAN, IOWA,** sell 1 bull by **GOLDFINDER SULTAN,** a half-brother to the $7,000.00 Supreme Goldfinder. Five open heifers, daughters of Goldfinder Sultan and Divide Javelin are also being sold. There are four **BRED COWS,** all mated to Goldfinder Sultan and daughters of Gobispar's Villager. This herd has been producing easy fleshing cattle and calves by Goldfinder's Sultan and have made remarkable records at the 4-H steer shows, including a Purple Ribbon steer at the 1948 Ak-Sar-Ben. All cattle sell **T.B.** and **Bangs** tested and fully guaranteed.

Write for your **FREE** copy of the catalog which contains complete information. Kindly mention this publication.

MERVIN F. AEGERTER, Sale Mgr., SEWARD, NEBRASKA

Auctioneer, J. E. Halsey M. T. White, Fieldman

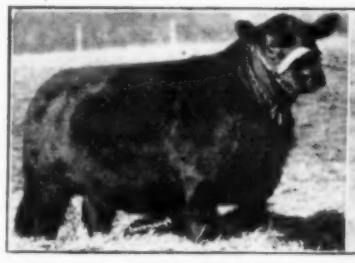
OUR ANNUAL SALE

Aberdeen Angus Cattle

Farm located south of Galesburg, Illinois, about 40 miles from Burlington, Iowa, and south of

AVON, ILLINOIS
WEDNESDAY, MARCH 23rd

8 TOP YOUNG BULLS — 55 RICHLY BRED FEMALES



BESSIE 4TH OF BRADLEY, an Erica B. 10th, Blackcap Bessie and one of the best to sell this year.

PRINCE BLACKCAP 25th, an outstanding grandson of the great Black Prince of Sunbeam.

This is an outstanding group of cattle from one of the richest bred herds of the breed. The offering features the great herd sires, **ERICA B. 10th,** grand champion at leading state fairs, **BURGESS 108th,** the choice son of Burgess 75th and **BRADOLIER** . . . a wonderful array of real herd sires. The 8 bulls are ready for service and real herd-heading prospects. The females are a grand lot sired by good bulls, some will be mated, others are ideal age to mate to your own herd bull. The families include Ballindalloch Georginas . . . Ballindalloch Jilts . . . Maid of Bummer Miss Burgess . . . 5 other strains of Miss Burgess . . . Blackcap Bessie . . . Zaras . . . McHenry Barbaras . . . and Juana Ericas. Nothing finer. Best in breeding, excellent individuals. You will want to attend. Ask now for beautiful **FREE** catalog. Kindly mention this publication. Address

FRANK M. BRADLEY & SONS, AVON, ILLINOIS

Auctioneer, Roy Johnston J. E. Halsey, Fieldman

6TH ANNUAL SPRING SALE

Bureau County

Angus Breeders' Assn.

Only 50 miles east of Davenport, in new heated pavilion on fair grounds

PRINCETON, ILLINOIS,
WED., MARCH 16th

78 HEAD — 18 GOOD BULLS, 60 CHOICE FEMALES

One of the finest offerings to be sold this year, selected from the leading herds in this section . . . where top quality Angus are produced. The **18** bulls are ready for service, real herd-heading prospects. The females include 12 grand cows with big, lusty calves at foot by gre at sires and many rebred. 32 excellent bred heifers, mated to outstanding herd sires and 16 most attractive open heifers. The most popular blood lines are represented. Breeding and quality that will please. Plan to attend. Ask now for the **FREE** catalog. Kindly mention this publication. Address

FORREST OLSON, Sale Mgr., WYANET, ILLINOIS

Bureau County Aberdeen-Angus Breeders Assn.

Auctioneer, Hamilton James

Iowa Hereford Cattle Breeders Association

INCORPORATED

Stock Yards Sale Pavilion

SIOUX CITY, IOWA, TUESDAY, MARCH 22d

A top offering of registered Hereford Cattle selling in just practical breeding condition. The same kind of an offering that has made Iowa and Nebraska cattle famous for their uniformity and good doing ability. The bulls are nearly all of breeding age, with depth and thickness, good heads, heavy quarters and easy fleshing qualities. The heifers are picked for this sale, the modern type and kind that will fit into the best herds. The consignors are:

V. R. Preston	Kingsley, Iowa	Leithem Creswell	Blencoe, Iowa
Milton Edleman	Webb, Iowa	Archie H. Swanson	Danbury, Iowa
N. V. Hansen	Kingsley, Iowa	J. H. Bradford	Fonda, Iowa
Mischke Hereford Ranch	Crofton, Nebr.	Felton & Sons	Aurelia, Iowa
E. O. Johnson & Son	Milford, Iowa	Elmo Bush & Son	Lake Park, Iowa
Melvin Jensen	Everly, Iowa	S. O. Knudson	Sioux Rapids, Iowa

A choice group of bulls and females representing Iowa's and Nebraska's foremost sires. It will pay those interested in good Herefords to attend. The last chance to select a top bull or heifer before the busy spring work season. It will pay you to see this offering. For **FREE** catalog please mention this paper and address:

F. W. KETELSEN, Secy. and Sale Mgr., EVERLY, IOWA

Chas. Corkle, Auctioneer — E. O. Johnson, President, Milford, Iowa — Maurice Boney, Fieldman

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DR. IRISH & K. HANNA

Twister Creek Farm Dispersal

59 Registered Holsteins

Sale to be held under cover, at the farm, on the Bancroft road, 3½ miles northwest of

FOREST CITY, IOWA, THURSDAY, MARCH 24th
12:30 P. M.

SELLING . . .

25 Cows and Heifers in production or springing . . . every mature cow from 400 to 500 lbs. fat . . . every 2-year-old from 357 to 470 lbs. fat . . . every one classified . . . 4 very good.

18 Yearling and 2-year-olds, mostly bred . . . 9 Heifer calves eligible for 4-H work . . . 7 Bulls from calves to service age . . . 1 Herd sire.

FEATURING . . .

The 6-year-old "Excellent," "Blood" bull, whose first 3 AR daughters average: 530 lbs. fat, 4.1% test, on 2x milking as 1st calf heifers . . . 25 females selling, bred to this great sire . . . also a dozen or more calves sired by him. He is sire of the $20,000 "Excellent" 3-year-old Osborndale bull.

Every animal TB and **Bangs** tested within 30 days of sale. Everything Calfhood vaccinated except a few foundation cows.

DR. T. J. IRISH and KENNETH HANNA, Owners

Kindly mention this publication when writing for free catalog to either:

CLAUDE WYLAM, Sale Mgr. Waverly, Iowa — **HENRY C. NELSON, Farm Mgr.** Forest City, Iowa

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Every Time You Sell Buy U. S. Savings Bonds

Iowa Holstein Breeders' Association Sale

Dairy Cattle Congress Grounds

WATERLOO, IOWA,

MONDAY,

MARCH 21, 1949

Sale starts promptly at 12:00 Noon

38 EXCEPTIONAL 4-H AND FFA POSSIBILITIES

Twenty per cent discount given bona fide FFA and 4-H members on 16 head. 22 head selling are heifers donated to the Paul P. Stewart Scholarship fund . . . every one of suitable show age. 14 represent breeding of Iowa State Institutions.

34 MILKING FEMALES, 4 OPEN YEARLINGS, 11 BULLS, SERVICEABLE AGE

Some of the representative consignments are:

MAYTAG DAIRY FARMS, INC., Newton—3 females, 2 by Sir Bess Ormsby Dean, "Excellent," and 1 by Sir Ormsby Fobes Dictator. All are bred to Pabst Burke Breeze Tritonia, a son of Wisconsin Admiral Burke Lad.

WILLIAM NIEMAN, R. 4, Waterloo—1 well bred daughter of Sir Bess Ormsby Dean, "Excellent" Maytag bull.

E. M. WRIGHT, R. 4, Waterloo—2 two-year-olds sired by grandson of Tavorisch and bred to an Ormsby Sensation 45th sire.

SPIES & LEIN, Graettinger—A beautiful August calf of Carnation breeding to sell to some 4-H or FFA member at 20% discount.

HERB MALVEN, Maynard—3 nice club calves by a double grandson of Transmitter to sell to 4-H and FFA club members at 20% discount.

A.J. JOHNSON, Elkader—A granddaughter of Old Chip and a granddaughter of Sir Tritonia Transmitter.

BEN ERICKSON & SON, Postville—6 daughters of a grandson of Dean Colantha Pearl Ormsby, all bred to a son of Pabst Roamer, whose dam has 5 records averaging over 600 lbs. fat.

WM. JUNGLING, Parkersburg, and **LESTER LOVELAND, Janesville,** have combined to offer 2 full sisters, 4 and 5 years old. Would make someone a Produce of Dam.

SERVICE AGE BULLS—ROY N. FINSTER, Eldora—A bull from a Dam with 3 records over 500 lbs., classified VG. One record 626 lbs., 3.9%. **KNAPP & MERNER, Cedar Falls**—A Carnation Madcap bred bull out of a 749-lb. dam. **FRANCIS WINSLOW, Grundy Center**—A serviceable age bull whose dam has 773 lbs. fat and a 4% test, Sir Bess Tidy breeding. **CARL E. MIEHE & SON, Maynard**—A yearling son by their Reserve All-American, 3-year-old, out of a 534 lb. 3-year-old heifer. **OAKDALE SANATORIUM**—A bull whose dam has a 4-year average of over 517 lbs. fat. **WM. JUNGLING, Parkersburg**—Sells a 2½-year-old bull, Sir Bess Ormsby Burke Skylark from the "Excellent" son of Walter's "Dora," in service at Osborndale. The bull's dam is a paternal sister to "Dora" and has a record of 558 lbs. fat, 4.2% test 305 days, 2X. Plan to attend. Ask for **FREE** catalog. Kindly mention this publication. Address

IOWA HOLSTEIN BREEDERS ASSOCIATION
912 Waterloo Bldg., Waterloo, Iowa

Auctioneer, N. G. Kraschel — M. W. Boney, Fieldman

—ADEL— Hereford Sale

In comfortable pavilion, located 20 miles west of Des Moines at

Adel, Iowa, Friday, Mar. 18

40 BULLS — 30 FEMALES

POLLED and HORNED HEREFORDS

In the sale heretofore some of the best cattle sold during the season have been listed in sale. Top individuals from some of Iowa's leading herds. Choice richly-bred individuals, displaying type and merit. You can find many bulls of serviceable age, both **POLLED** and **HORNED**, suitable for real herd-headers. The females include cows with calves and rebred, bred cows and heifers and attractive open heifers. The sort for improvement. The consignors are:

C. C. Grandfield	Lorimor, Iowa	Meredith Farms	Des Moines, Iowa
Carl Symonds	Cumberland, Iowa	Hurley Hereford Ranch	Winterset, Iowa
Z. A. Wynkoop & Son	Earlham, Iowa	Davis & White	Truro, Iowa
Ed Flaherty	Murray, Iowa	Grimes Hereford Farms	Grimes, Iowa
Walker Hereford Farm	New Virginia, Iowa	Walter J. Blauer	Afton, Iowa
Ray O. Stark	Boxholm, Iowa	Frank & Ralph Binder	St. Charles, Iowa
Lawrence B. Matzen	Bagley, Iowa	N. M. Leonard & Son	Waukee, Iowa
Herman Wuester & Sons	Clearfield, Iowa	R. C. Mack	Truro, Iowa
Paul Wulff	Dexter, Iowa	Albert DeWitt & Son	Peru, Iowa
Doyle Bedwell	St. Charles, Iowa		

Some of Iowa's best cattle will sell, a place where you can buy top cattle at your own price. The cattle will be presented in good, strong breeding condition, which is to the advantage of the prospective buyer. The large number affords a wide selection. All cattle **T.B.** and **Bangs** tested. Make plans to attend. Ask for the **FREE** catalog. Please mention this publication. Address

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Auctioneer, Fred Chandler — M. T. White, Fieldman

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MUSCATINE, IOWA

MONDAY, MARCH 21st

50 OUTSTANDING SPRING GILTS

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WICK'S

Spotted Poland Sale

At Sale Pavilion

STORY CITY, IOWA, MAR. 11th

35 Choice spring gilts sired by **PACKER'S ANSWER** and **HOMERS' CHOICE.** Bred for March and April; a few sows with litters now. Mated to **HOME FARM MASTERPIECE, PACKERS ANSWER** and **ALADDIN.** Good breeding. Excellent quality. 10 fall boars, 20 fall gilts. Bred the same as our offering last fall and been handled in a practical manner. Please come. Ask for **FREE** catalog. Kindly mention this publication.

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ANNUAL SPRING SALE

NORTHWEST MISSOURI

Shorthorn Breeders' Assn.

Sale barn on Highway No. 71, south edge of town

SHOW — 9:30 A. M. **SALE — 12:30 P. M.**

JUDGE: Russell Holz, Rippey, Iowa

MARYVILLE, MISSOURI, MONDAY, MARCH 28th

32 GOOD BULLS — 32 CHOICE FEMALES

This fine offering is selected from **18** leading herds in this section. You can find a herd bull here, most all ready for service. Females include cows with calves and rebred, bred cows and heifers and attractive open heifers. The blood lines are dependable. Sires include much of the best Goldfinder, Sni-A-Bar, Cruggleton Aspiration (Imp.), Cruggleton Achtol (Imp.), Helfred Golden Fame, Ransom, and Mercury breeding. Unexcelled in type, merit and quality. Sold in condition that will make money for the buyers. Come. Ask now for the **FREE** catalog. Kindly mention this publication. Address

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Auctioneer, J. E. Halsey

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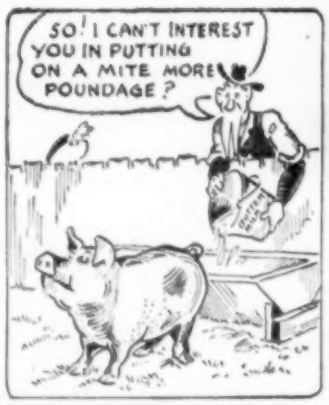

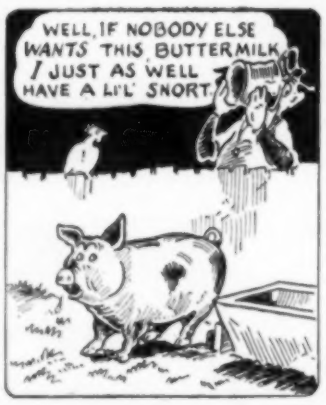

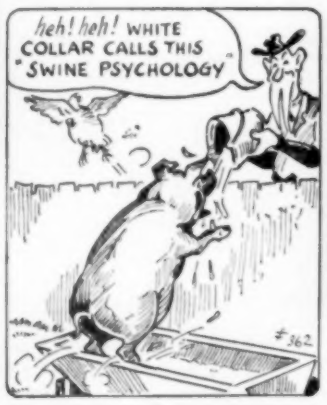

Iowa Royal Shorthorn

SHOW
1:00 P. M.
Monday, March 14th

SALE
12:00 Noon
Tuesday, March 15th

JUDGES: Norman T. Findahl, Waterville, Minn., and Gilbert Elkin, Jr., Mayville, N. D.

In comfortable pavilion at State Fair Grounds

DES MOINES, IOWA
MARCH 14th and 15th

62 HEAD — **37 BULLS** — **25 FEMALES**

One of the finest offerings ever sold in a state sale, which have been consigned by 25 of the leading herds of Iowa. The 37 bulls are most all ready for service and include much herd bull material . . . a bull for most any demand . . . the large number affords a wide selection. They are sired by good sires and right in pedigree. The 25 females will please . . . several choice young cows and heifers well forward in calf to top herd sires and some most attractive open heifers, just right to mate to your herd bull. The consignors are:

PAUL ALDINGER	Ackley	GILBERT KARDEL	Walcott
W. C. ANDERSON & SON	West Liberty	LOMAS FARMS	Villisca
COWMAN STOCK FARM	Prairie City	A. P. LYON	Swan
GEORGE S. CUCKIE	Duncombe	TEDFORD W. MILES	Corydon
CLAUSEN BROS.	Spencer	H. K. OWENS	Homestead
HUGH DeBOLT	Corydon	PENNINGROTH BROS.	Wellman
PHIL FUNKE	Greenfield	HENRY RATHOUZ	Callender
J. R. FLEMING	Green Mountain	CYRIL L. REES	Pleasantville
HELFRED FARMS	Des Moines	JOHN B. ROCKWELL	Mount Pleasant
TARVIN GOOKIN	Chariton	D. D. STAPLES	Des Moines
WAYNE GREIMAN	Garner	BEN O. STUDER	Wesley
HELGENS BROS.	Monticello	LESTER TOMLINSON & SONS	Traer
UPPERMILL FARM	Wapello		

Some of the best known sires of the breed are well represented. The most reliable and dependable blood lines are included . . . breeding and quality that should appeal to our best cattlemen. You can make profitable selections here. All **T.B.** and **BANGS** tested. Plan now to attend. Ask for **FREE** illustrated catalog. Kindly mention this publication. Address

CHAS. GARDEN, Mgr., Route 6, DES MOINES, IOWA

Auctioneer, J. E. Halsey — M. W. Boney, Fieldman

BANQUET: Hotel Kirkwood, 6:30 P. M., March 14th. All are invited.

EASTERN IOWA ANGUS BREEDERS

BEEFLAND SALE

To be held at Mississippi Valley Fair Grounds

Davenport, Iowa
MONDAY, MARCH 21st

NIGHT SALE — STARTING 7:00 P. M.

55 HEAD

11 CHOICE BULLS, 44 RICHLY-BRED FEMALES

Some of the best herds in Scott, Muscatine, Cedar, Clinton and Jackson counties . . . where top quality Angus cattle are produced . . . "THE HEART OF IOWA'S GREAT BEEF PRODUCING AREA," list their best cattle. The 11 bulls, most all ready for service, including a good 3-year-old tried and proven sire, a grandson of the famous **BLACK PRINCE OF SUNBEAM.** One top son of **EILEENMERE 585th,** another choice one by **GENERAL 2d OF BORDULAC,** and an excellent one by **BARRY BURGESS OF WILTON.** Herd bull prospects. The 44 females are a most desirable lot, pleasing in type and quality. 25 bred females, mostly mated to **PRINCE SUNBEAM 300th; WINTONIER 4th; BARBO OF ADA 4th; BLAKEFORD EBONY PRINCE; PRINCE PARADE OF PAGE; BURGESS 206th; JUAN LAD B.; RLS BLACK PRINCE; EDWIN BARDOLIER,** and **BLUE WARDEN OF ADA,** an array of great sires. There are 14 most attractive open heifers sired by **EVADERS QUALITY BARDOLIER; BANDOLIER PROSPECT LAD 5th; BURGESS MARSHALL L.; BELL BOYS BARBO 2d; BLACKCAP B. 19th,** and **BARRY 6th OF WILTON.** The rich families include **MISS BURGESS, JILT, ROSEMERE BARBARA, McHENRY BLACKCAP, ELBA, ROSEMERE IRENE,** and **EMPRESS BLACKCAP.** Breeding and quality unsurpassed. Plan to attend. Ask now for **FREE** illustrated catalog. Kindly mention this publication. Address

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MERCER COUNTY

ANGUS SALE

Only 20 miles south of Davenport

19th Annual March Sale

ALEDO, ILLINOIS
Saturday, March 19th

116 HEAD—28 BULLS, 88 FEMALES

In recognition of the **20th** anniversary of the organizing of this association, and the **60th** anniversary of the founding of 3 of the consigning herds: every effort has been made to make this one of the season's outstanding offerings. Recent photos of over 50 of those selling will attest to this merit. Great individuals in their own right with a background of the greatest producing strains of the breed. Herd sires descending from **Black Prince of Sunbeam: Eileenmere 85th; Bandolier of Anoka** and the best imported strains . . . a popular bred animal has no additional value unless it possesses exceptional individual merit, and represents strains capable of consistently reproducing that merit. In this sale circuit over **400** head of the breed's better cattle will be sold, and we believe the dates have been arranged to meet with the buyer's greatest convenience. Bulls that will make real herd headers, females of foundation character. The large number affords buyers a satisfactory selection. Ask for **FREE** catalog, with many beautiful illustrations. When writing please mention this publication. Address

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3 Witch of Endors
11 Ballindalloch Georginas
5 Ballindalloch Jilts
2 Ballindalloch Coquettes
10 Glencarnock Elbas
4 Cridlan Evergreens
2 Juanas
1 Hartley Edella
3 Finlarig Elbas
1 Brookside Elluna
2 Enchantress Ericas
1 Eisa Erica
4 Blackcap Bessies
7 Blackcap Effies
8 McHenry Barbaras
13 McHenry Blackcaps
4 Pride of Aberdeens
1 Heather Bloom
2 Lady Idas
2 Kinochtry Beautys
4 Miss Burgess
2 Barbaras
1 Blackcap
5 4th Branch Blackbirds
3 3rd Branch Blackbirds
2 2d Branch Blackbirds

H. McWHORTER, Secy., ALEDO, ILLINOIS

MERCER COUNTY ANGUS ASSOCIATION

Auctioneer, Roy Johnston — J. E. Halsey, Fieldman

SALE CIRCUIT: March 21—Wilton Farms, Davenport, Iowa; March 21 (NIGHT SALE)—Eastern Iowa Breeders, Davenport, Iowa; March 22—"The Jilt Jubilee," Columbus Junction, Iowa; March 23—F. M. Bradley & Sons, Avon, Illinois.

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5 BULLS ANGUS 60 FEMALES

SELLING AT

The Jilt Jubilee of 1949
Tuesday, March 22nd
at COLUMBUS JUNCTION, IOWA

BANDOLIER OF ANOKA 46th. Several bred to this top son of BANDOLIER OF ANOKA 10th.

EILEENMERE 1023, proving to be one of the greatest breeding bulls. 14 bred to him.

TOP FAMILIES

8 JILTS, GEORGINA, ZARA
7 MISS BURGESS, BLACKCAP BESSIE, JUANA, WITCH OF ENDOR, BARBARA, ELBA and others.

TOP QUALITY

Many show heifers. The best offering we have ever sold.

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Muscatine, Iowa

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Featuring the Get and Service of Great Bulls

43 Bandoliers sired by sons and grandsons of BANDOLIER OF ANOKA 3rd and 7th. 7 SUNBEAMS.

33 bred to the bulls pictured and other BANDOLIER OF ANOKA and BARDOLIER bulls.

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DES MOINES · · · · · IOWA

LIVESTOCK NEWS

The 34th annual Omaha Shorthorn sale, held February 16, drew a good attendance. Much interest was centered on the pre-sale show, which was judged by George Gerdes, Alliance, Neb. Top of the sale was $956, on the champion bull, Braemore Starry Archer, consigned by Carl Retzlaff & Sons, Walton, Neb., and selling to Nelson Farms, Geneseo, Ill. C. W. Winter, Hepburn, Iowa, paid $825 for the reserve champion bull, Imperial Footprint, the good, red, coming two-year-old consigned by McCone Bros., of Botna, Iowa. Ervin Rafert, Grisham, Neb., paid $650 for the red son of Divide Bandmaster, consigned by Johnson Bros., Exira, Iowa. Leo Schmitz, of Maryville, Kan., gave $600 for the yearling son of Divide Prince Peter, consigned by the Allen Cattle Co., Colorado Springs, Colo. McCone Bros. showed the champion female, Duchess of Gloster 12th, carrying a calf by Red Mercury Leader, which sold for $410 to J. N. & J. L. Johnson, Sidney, Iowa. The reserve champion female, M. G. Rosewood 4th, consigned by Priscilla Drumm, Omaha, Neb., topped the female auction at $415, going to Leo Schmitz, Marysville, Kan. The 77 bulls averaged $309, with the 26 females averaging $261, making a general average of $298 on the 103 lots. Mervin Aegerter, Seward, Neb., turned in another fine job of managing the sale, which saw the cattle selling into Iowa, Nebraska, Illinois, Kansas and Minnesota. J. E. Halsey sold the entire offering.

A large crowd gathered for the 34th annual Polled Shorthorn sale, at Omaha, February 17. Harold Thieman, Concordia, Mo., judged the pre-sale show, and found stiff competition thruout the classes. One of the best lineups of bulls seen anywhere battled it out for the top awards, which saw the roan 1947 entry of A. Lopau & Sons, Pipestone, Minn., named the champion. This deep, thick-fleshed son of Superb Monarch X was a half-brother to the record-selling Browndale Monarch. Ed White, Fairfax, Mo., topped the sale, giving $1,200 for this year's champion. Fletcher & Hagenbuch, Hurley, S. D., paid $800 for the reserve champion, Collynie Express 7th, consigned by E. P. Laughlin, Imogene, Iowa. Howard Brunkow, Manly, Iowa, and Paul Mann, Wabash, Iowa, gave $1,000 for Valley View Jupiter, a good son of Gloster Dale X, consigned by Fred Blomstrom & Sons, Waverly, Neb. A. L. Russell and W. R. Melby, Fullerton, Neb., paid $825 for Collynie Express, the tried and proved sire consigned by E. P. Laughlin. George White, Malvern, Iowa, gave $750 for King of Coronet, consigned by Clemens Hade & Sons, Harcourt, Iowa. Kenner Shorthorn Farms, Hebron, Neb., showed the champion female, a coming two-year-old daughter of Collynie Fascinator, which was purchased by G. W. Zinnel & Sons, Rockwell City, Iowa, for $500. E. P. Laughlin also showed the reserve champion female, which sold to Otto Johnson, Lohrville, Iowa, for $490. Mervin Aegerter, Seward, Neb., sale manager, deserves much credit for assembling such a fine bunch of Polled Shorthorns in one large offering. The 78 bulls averaged $386, with the 25 females selling for an average of $281, making a general average of $360 on the 103 head. The cattle went into eight states: Iowa, Nebraska, Kansas, Montana, North Dakota, South Dakota, Missouri and Minnesota. J. E. Halsey sold the entire offering in rapid-fire order.

Despite severe icy road conditions, a fair attendance arrived at Colchester, Ill., on February 15, for the Lamoine Valley third annual Aberdeen Angus sale. Bruce Bricker, McComb, Ill., sale manager, deserves much credit in getting the large offering of practical breeding cattle assembled. J. Miles McGrew, Walnut Grove, Ill., paid the high price of the auction, $460, for the coming two-year-old, Bellands Bandoller, consigned by Bruce Bricker. Joe Wheeler & Son, Williamstown, Mo., gave $410 for the good coming two-year-old bull consigned by Cecil Neill, Carthage, Ill. Emerson Colvert, of Sciota, Iowa, paid $395 for the yearling bull consigned by Deep Valley Farms, Flatt, Ill. The top of $410 was reached on females twice during the auction. J. H. Pille, Hanna City, Ill., paid this for a yearling daughter of Ego Bardoller G. R., consigned by Deep Valley Farms. Deep Valley Farms also paid this figure for the year-old Georgina Bandoller, consigned by Leslie T. Hamilton, Macomb, Ill. The cattle sold to buyers from Iowa, Missouri, Illinois and Alabama. The 12 bulls averaged $260, with the 53 females averaging $257, making a general average of $258 on the 68 lots. Johnston and Sims were the auctioneers.

The Iowa Poland China show and sale, Des Moines, Iowa, February 12, under the able direction of Fred W. Morgan, secretary, was very successful. The top sow was Lot 11, consigned by Floyd Friedow & Sons, and sold for $575 to Oklahoma A. & M. College, Stillwater, Okla. The second top was Lot 41, and sold for $460 to Watne & Son. Lot 1 went at $405 to Geo. H. Collins, Jesup, Iowa. Lot 17 went to Leo Hay at $435, Alfred Paper, Stockton, Iowa, paid $300 for Lot 13. Paul Bahr, Iowa Falls, Iowa, paid $275 for Lot 8. The top fall boar was Lot 55, selling to Lyle Cockerton, Whiting, Iowa, at $150. Lot 68 was selected by H. F. Olerich & Sons, Rolfe, Iowa, at $145. Lot 54 also sold the same as the top, $150, to P. W. Baukema & Sons, Newton, Iowa. The top 10 sows averaged $364, with 52 head at $192 each. The 11 fall pigs, five boars and six gilts, averaged $92 each. The sale totaled $10,827.50.

The Chester White sale, at Waverly, Iowa, February 15, of Robert A. Meyerhoff, Dunkerton, Iowa, followed the ice and snow, which no doubt kept buyers from a distance from attending. The crowd was quite local. Those present liked the two herd boars, Farrell's Promise and Citation. Lot 17, by Iowa Lad, and bred to Citation, topped the sale at $190, and went to Harvey Stock, Waukon, Iowa. Lot 41, by the same sire, and bred to Citation, sold for $170 to M. P. Moore, Springville, Iowa. The 40 head averaged $110, and buyers secured good values. All went to Iowa buyers. Auctioneer, J. E. Halsey.

The Chester White sale of Roy Copp, at Glidden, Iowa, on February 10, attracted a very large crowd of breeders from several different states, and he sold 50 head of bred sows at an average of $150. On February 12, the firm of F. L. Jackson & Sons sold 60 or 70 head of Spotted Poland China bred sows at an average of $190 per head. Detailed reports of these sales will appear in later issues.

The two-day sale of Shorthorn and Polled Shorthorn cattle, held at Omaha, Neb., February 15 and 17, drew good crowds, despite the adverse weather and road conditions. The cattle sold to buyers from nine states. A general average of $330 per head was made on the entire offering of 200 lots. A further breakdown shows the 150 bulls averaging $343 and the 50 females, most all of which were young heifers, selling for an average of $273.

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DUROC JERSEYS

DRUMMY'S DUROCS

30 choice dark red, lengthy deep bodied, well rippled gilts, weighing 360 lbs. to 400 lbs. Bred to a truly great boar from that sensational litter sired by KAYWARD LEADER, 1948 Iowa Reserve Grand Champion. Will farrow March and April. FALL gilts, weight 250 lbs., open or bred for June farrow. Cholera immune. Farm 2 miles south, 1 mile east. PRICED TO SELL.

VINCENT DRUMMY RYAN, IOWA

DUROC BRED GILTS

Choice gilts bred to PROUD IMPROVER 326801, PROUD SECO MODEL 337761 and JUST RIGHT AGAIN 326931. Good type and quality. Excellent breeding. Priced right.

SAM ROBERTS & SONS JEFFERSON, IOWA

PUREBRED DUROC GILTS

by Mr. Blue Print, mostly mated to E. T. or Success for late March farrow. Also fall pigs by the popular Mr. Blue Print.

E. T. GARTON & SON MARATHON, IOWA

HAMPSHIRES

HAMPSHIRE SOWS

Choice yearling sows bred for March and April farrow to the rugged NEW BOUNCE, first prize fall boar at State sale. Real prospects. Reasonable.

CLARENCE J. SUEPPEL SOLON, IOWA

HYBRID HOGS

HYBRID BOARS

Breed like and perform like hybrid corn . . . over 38 different lines available to genetically fit your sow herd. Dealership and county distributorships available. Circular FREE.

WILSON HYBRIDS, INC. HARLAN, IOWA

MINNESOTA NO. 2 HOGS

REGISTERED MINNESOTA NO. 2 FALL BOARS

100 lbs. to 200 lbs. Long time vaccinated.

GORDON ANDERSON FAIRFAX, MINN.

SPOTTED POLAND CHINAS

Spotted Poland China Bred Sows

Choice gilts bred to good boars. Pleasing in type and wonderful quality. Priced to sell.

A. J. ANDERSON & SON

Phone 83 Kellogg, Iowa

SPOTTED POLANDS

Registered, 20 fall boars and 40 gilts. Tops sired by Spotted Bay out of dams by Feeders Model and Bingo. They have size, color and quality. Satisfaction guaranteed. Will ship anywhere. Farm 4 mi. N.

W. E. BRENTNALL & SON, PRESCOTT, IOWA

REGISTERED

SPOTTED POLAND CHINA

Sows and gilts bred for March, April and May. Also fall boars. Excellent breeding and real quality.

PETER WITT KEYSTONE, IOWA

JACKSON'S SPECIAL OFFERING ON SPOTTED POLAND CHINAS. We are offering 35 choice gilts bred for March and April farrow to our great herd boars. These sows are like what we recently sold in our sale that averaged $198. If you want the best come and see these sows. These are real bargains. Address F. L. JACKSON & SONS, Lytton, Iowa. Farm located two miles east and two miles north of Lytton on U. S. No. 20.

Spotted POLAND CHINAS

I am now offering 40 head of Spotted Poland China boars and gilts at farmers' prices. See me or if you want some real bargains. Address

W. C. MOUNTAIN LORIMOR, IOWA

Men Get Animal Diseases

Sick livestock means smaller farm profits. But there's another important reason for controlling livestock diseases: Some of them affect people as well as animals.

Undulant fever lays many folks low each year. They pick it up from cattle and hogs affected with brucellosis.

Anthrax, a highly contagious disease of cattle, horses, sheep and hogs, may be transmitted to man thru contact with sick animals, or with meat, hides and wool from sick animals.

The bovine typeof tuberculosis now is rare in man. But it took an intensive program of cattle testing and slaughter to control it.

Erysipeloid infection in man isn't too common, but it has caused death to persons who picked it up from swine affected with erysipelas.

Other animal-man diseases include rabies, tularemia (rabbit fever), smallpox, cowpox, tichinosis, bubonic plague, typhus, Q fever, scarlet fever, septic sore throat.

Grain vs. Livestock

Grain farming was more profitable than livestock farming in eastern and central Illinois from 1945 to 1947. But it was costly in terms of loss of soil fertility and eroded top-soil.

That's one of the facts University of Illinois farm management specialists turned up in studying about 500 farmers' records. The records were kept by cooperators in the Farm Bureau farm management service project, supervised by the agricultural extension service.

On livestock farms, beef cattle and hog production seemed to be more profitable than dairy and poultry farming. This was due to the larger price rises for beef and pork, and the higher labor costs on dairy and poultry farms.

Another finding was that the 100 most efficient farmers earned about $30 an acre more than the 100 least efficient farmers.

Keeping Milk Clean

Clipping, brushing and washing are three important steps in keeping sediment and other foreign materials out of the milk pail, says Roy A. Cave, extension dairyman for the South Dakota extension service.

The dairyman points out that cows with a heavy coat of hair are difficult to keep clean. A small electric clipper has been found to be most satisfactory for clipping the hair on the flanks, bellies, tails and udders, so dirt won't be so apt to cling to the cow and drop down into the milk during milking.

In addition to clipping, brushing the cows daily and washing the udders with a cloth wrung from a warm chlorine solution before milking, Cave suggests that milk can be kept clean by sweeping the cobwebs and loose dust down from the barn walls, making sure that there is a tight floor above the cows, so dust and dirt from the haymow won't fall down into the milk, and keeping the cows well bedded.

Chinch Bug Threat

The chinch bug threat for 1949 is potentially one-eighth as great as it was in the fall preceding 1940, a year when the bugs did considerable damage, says Harold Gunderson, extension entomologist at Iowa State College.

A fall survey on chinch bugs was conducted by the United States Bureau of Entomology and Plant Quarantine and the extension service at Iowa State College.

Chinch bug numbers are heavy in parts of Monona, Harrison, Pottawattamie, Decatur, Wayne, Lucas, Marion, Monroe, Mahaska and Page counties. Light infestations are present in surrounding counties.

Creosote needs for the coming year will run close to 438,750 gallons in the 25 counties in southern and western Iowa, where control measures may be necessary, according to the survey.

TWO HOT NUMBERS IN 1949!

BOLSON'S Pig and Sow Meal—Mash or Pellets

BOLSON'S Contented Peep Chick Starter—Mash or Crumbles

Both these have the extras in Fish, Milk, Meat and Liver Meals, the Finest Cereals, plus Vitamins and Minerals.

Tie to these feeds in 1949! They are priced very reasonably.

Sold by Reliable Feed Dealers Only.

The L.C. BOLSON Co.

A NAME YOU CAN TRUST IN FEEDS!

DECORAH, IOWA.

YORKSHIRES

YORKSHIRE HOGS

Registered Breeding Stock of all ages for sale. PORTERS YORKSHIRE FARM ELDRIDGE, IOWA 8 miles north of Davenport

YORKSHIRE HOGS

Champion carcass over all breeders 1948 National Barrow Show. Our herd won more Championships and firsts at Illinois, Ohio and Maryland State Fairs than all others combined. Write for illustrated circular.

YALEHURST YORKSHIRE FARM, Peoria, Ill.

SHEEP

HAMPSHIRE EWES

Fine purebred ewes of good quality. Bred to lamb February, March and April. Write for particulars. Phone 901.

M. O. TJERNAGEL STORY CITY, IOWA

SUFFOLKS AND LINCOLNS

Choice bred ewes of either breed, sired by or bred to Champions. Write or wire. Shipped on approval.

CRANDELL'S PRIZE STOCK FARM ITHACA, MICH.

DOGS

Notice—Unsatisfactory dogs must be returned within time specified by advertiser. Buyer always pays express charges (both ways if dog is returned) unless advertiser states in advertisement that he will do so.

COLLIE SHEPHERD CROSS PUPS

8 weeks old. Sable and white. Males $12.50. Spayed females $15.00. Sire and dam good cattle dogs. Will send C.O.D.

JOE SAUNDERS

Ogden, Iowa

GENUINE ENGLISH SHEPHERD PUPS

Guaranteed heelers. Year's trial, training instructions. Males, females or spayed females.

HIGHVIEW KENNELS, CEDAR FALLS, IOWA

BEST YET

ENGLISH SHEPHERD PUPS

Guaranteed to bring home the cows. Year's trial. Choice of sex. Spayed females a specialty. Priced right.

CLOVERDALE FARM ACKLEY, IOWA

Purebred Border Collies English Shepherds

America's most useful dogs. Puppies all ages. Both sexes. Choice colors. Faithful workers. Satisfaction guaranteed.

We breed and sell our own stock.

FAIRMOUNT FARMS - CEDAR FALLS, IOWA

SHEPHERDS, COLLIES

ENGLISH SHEPHERD, OR COLLIE PUPS for watch and stock. Also registered Scotch collies. Reasonable.

ZIMMERMAN FARMS FLANAGAN, ILL.

WANTED TO BUY

Good English Shepherd or Collie Pups

Write Box 1, Wallaces' Farmer and Iowa Homestead

Shomont Collies

Workers—Companions—Guards. Write for free lists.

SHOMONT FARMS AND KENNELS

MONTICELLO IOWA

GENUINE ENGLISH SHEPHERD AND COLLIE PUPS

Guaranteed heel-drivers (no fooling). Year's trial, training instructions. (50,000 satisfied customers.) Males — females — spayed females specialty $15.00. (Distemper vaccinated.)

EMIL RUNFT REINBECK, IOWA

AIREDALES, REGISTERED

Males $25 — Females $15

COLLIE SHEPHERD, Males $10—Females $7.50

FERRETS—Male or Female $10

Bred Mink for April 1 delivery

VAN GORP KENNELS & MINK RANCH

PELLA, IOWA

Buy Bonds Now

HAMPSHIRE SALE

Fair Grounds

Marshalltown, Iowa

MARCH 8th

100 HEAD

80 Choice Spring Gilts

10 Fine Fall Gilts

10 Rugged Fall Boars

The 90 bred sows and gilts include 60 registered gilts and 30 unregistered gilts. All well grown, splendid type. Best in blood lines. Many are bred to HIGHBALL, the extra heavy hammed son of Fixer. Others bred to top sires. The 10 fall boars will please. COME.

HOWARD SOORHOLTZ

Melbourne, Iowa

RED POLL CATTLE SALE

WEDNESDAY, MARCH 16

12:30 P. M.

AT NORMAL UNIVERSITY NORMAL, ILLINOIS

55 HEAD — 40 Females, 15 Bulls

Top cattle are being consigned from the leading herds of Illinois, Wisconsin and Iowa. Red Polls are on the march. Dual-purpose, uniform, hornless cattle. For more milk, beef and butterfat, raise Red Polls. Write for catalog to

R. Y. BARTHOLOMEW

R. R. No. 4 Peoria, Illinois

ANNUAL STATE

Iowa Angus Show & Sale

Fair Grounds

Des Moines, Iowa., March 8-9

SHOW—10:00 A. M., March 8th

SALE—10:00 A. M., March 9th

160 HEAD

70 GOOD RUGGED FEMALES

90 CHOICE FEMALES

Good dependable, well-bred cattle consigned by leading breeders. You can find what you desire to buy . . . one or a carload. COME. Ask for FREE catalog. Kindly mention this publication. Address

GAROLD L. PARKS, Secy

R. 3 Ames, Iowa

CHESTER WHITES

CHESTER WHITE GILTS

40 OUTSTANDING BRED GILTS

Well grown and the type in demand. Sired by Model Chief, Performance Chief and Combination. Bred to LUCKEY'S MODEL LAD 572979, WHITE KING 569877, and PRODUCERS PROFESSOR 568747. For March and April farrow. Write or come and make your selection from this long established herd. Top quality and breeding. REASONABLE. Pedigreed. Immuned. Satisfied Customers.

F. H. SCHMADEKE & SONS

Clarksville, Iowa

Your Local

— IMPLEMENT DEALER —

carries a full line of

NEW EQUIPMENT

and REPAIR PARTS

for your convenience!

HIRED HAND HARLEY—It's Always Hardest On Pop

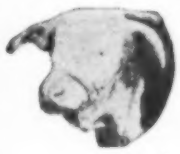
Iowa Hereford Association Sale

Henry County Sale Pavilion

SHOW — 10:00 A. M. **SALE — 12:30 P. M.**

JUDGE: Emerson Marting, Washington Court House, Ohio

Mt. Pleasant, Iowa, Sat., March 12th



HEREFORDS and POLLED HEREFORDS

31 Good Bulls
23 Choice Females

An opportunity for Farmers and Breeders to make profitable selections from the leading herds in this section. A fine lot of bulls, most all ready for service, bulls suitable for herd-headers, a bull that will please everyone. The females include cows with calves, bred cows and heifers, and attractive open heifers. The consignors are:

Harry Bates & Son	Eldon	Henry R. Leu	Keokuk
S. Burns & Son	Pulaski	R. G. Lowe	Letts
B. M. Burns	Milton	Maplecrest Hereford Ranch	Wellman
Howard Clark	Keokuk		
Don DeVoss	Cantril	Waldo Miller	Keota
Sam T. Gilbert Est.	Fairfield	Joseph O'Rourke	North English
Lester Hafner & Son	Letts	F. Max Schomberg	Letts
N. K. Hartley	Hillsboro	George H. Scott	Mt. Pleasant
Mark Hoaglin	Hillsboro	E. A. Stewart	Columbus Junction
Carl E. Johnson	Mt. Pleasant	Merton W. Wright	Mt. Pleasant
Gerald Kurtz	Packwood	Verne P. Wright	Mt. Pleasant

This is one of the desirable offerings to sell this season. There will be a **4-H** and **F.F.A.** judging contest in the morning. You will want to attend the show and sale. Cattle well-bred and sold in a condition that should prove profitable to the buyers. Ask now for **FREE** catalog. Kindly mention this publication. Address

N. K. HARTLEY, Secy., HILLSBORO, IOWA

Auctioneer, Guy Pettit J. E. Halsey, Fieldman

9th ANNUAL MARION COUNTY

HEREFORD SALE

in Bingley Sale Pavilion
SHOW — 9:30 A. M.
SALE 12:30 P. M.

Knoxville, Iowa, Saturday, March 19, 1949

80 Head

50 SPLENDID BULLS
30 CHOICE FEMALES

Marion County has won many honors on their cattle . . . including County Champion Hereford group of 4-H heifers at 1946-1948 Iowa State Fair, second prize group in 1947 . . . Champion heifer 1946 and 1947—similar blood lines offered in this auction. Most bulls ready for service . . . a bull for every need. Choice bred cows and heifers, mated to top herd sires and attractive open heifers. The consignors are:

A. W. GOFF	Chariton	W. E. ELDER	Allerton
RAYMOND E. MEYER	Russell	R. B. ELDER	Clio
MIKE BAKALAR	Knoxville	CARL L. HARDIN	Pleasantville
H. K. BLISS	Lacona	ALVA CHANDLER	Chariton
H. J. WOODY	Reasnor	WM. T. MURPHY	Knoxville
S. B. HEABERLIN & SONS	Pleasantville	GOFF & PRESLEY	Knoxville
HOBART WILSON	Knoxville	JOHN R. McCLURE	Knoxville
DALE J. CORE	Pleasantville	JIM HARTLEY	Dallas
HAROLD CORE	Pleasantville	JOE M. JOHNSTON	Knoxville
GUY PROFITT	Pleasantville	PERRIN HEREFORD FARM	Chariton
RAYMOND T. PIM	Lucas	W. L. SNIDER	Lucas

The offering will compare favorably with any we have offered. The blood lines of the following sires are represented. Bob Blanchard, Via BO Carlos 93, Hazford Rupert 93, WHR Proud Domino, WHR Double Domino, Hartley Princel, Mischief Domino 21, Battle Domino 17, Mixer President, Jupiter Domino 4, Real Onward 6, J. H. Bocaldo 2, Super Blanchard 51, Royal Rupert k. 35, C. Bocaldo Lad 37, Real Type 24, G. Roy Rupert K., New Deal Domino, Via Bocaldo 130, American Domino, J. H. Real Domino, Hazford Tone 141, Via Bocaldo 130, HT. R. Rupts WEH 41, MB Iowa Domino 66, Super Blanchard 51, WHR Proud Mixer and Real Silver Knight. Best of blood lines. All **T.B.** and **Brugs** tested. Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

WALTER L. BROWN, Sale Mgr., KNOXVILLE, IOWA

Auctioneer, Fred Chandler M. T. White, Fieldman

Banquet and annual meeting 6:30 p.m., March 18. All are invited.

Advertisement

From where I sit ... *by* Joe Marsh

The Missus "Ducks" Out

Slim Hartman took his missus duck hunting last Fall. And after five hours of sitting in a swamp, she'd had enough! Going home, Slim reminded her good-naturedly of the time she'd taken him to a woman novelist's lecture, and insisted he sit it out.

So now the missus and Slim have an understanding. No more duck hunting for her—no more lectures for him. They decided *each to his own taste.*

It's because they *can* agree to disagree like that, I think, that Slim and the missus get on so well—content to stay home nights together, enjoying one another's company over a glass of beer and a game of chess.

From where I sit, we can't all enjoy the same things—but we can share those little pleasures that we do enjoy—a glass of beer, a game of chess, some music on the radio—and live-and-let-live when it comes to the others.

Joe Marsh

Copyright, 1948, United States Brewers Foundation

More and Better SHORTHORNS

To be sold at public auction

"THE SALE OF SATISFIED BUYERS"

In comfortable sale pavilion, located only 12 miles from Galesburg, Illinois, on C., B. & Q., and Santa Fe Railroads, at

ABINGDON, ILLINOIS, FRIDAY, MARCH 18th

87 REAL MONEY MAKERS
37 IMPRESSIVE BULLS
50 DEPENDABLE FEMALES

There will be more and better Shorthorns than ever before in the "SALE OF SATISFIED BUYERS." The 87 lots are selected from leading breeders from 3 states. The large number affords a wide selection. Plenty of herd bull material . . . a bull for every need. A good place to buy your herd bull. The females are an excellent lot, cows with calves by great herd sires and rebred, several attractive bred cows and heifers and a beautiful lot of open heifers. Over **$600,000** in Shorthorns have been marketed through this sale. The most **Important District Shorthorn Sale in the Nation.** Plan now to attend. Ask for **FREE** illustrated catalog. Please mention this publication. Address

HAL LONGLEY, Sale Mgr., 16 S. Locust St., AURORA, ILLINOIS

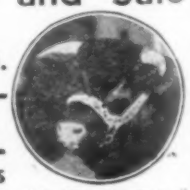
Auctioneer J. E. Halsey

MISSOURI

Shorthorn Breeders Show and Sale

Fraley Sale Barn

Show: 9:30 A. M. **Sale: 1:00 P. M.**



CHILLICOTHE, MO., WED., MARCH 16th

69 HEAD — 32 GOOD BULLS, 37 WELL-BRED FEMALES

A strong offering of richly bred cattle, drawn from 21 leading herds. The bulls are most all ready for service, and include herd bull material . . . a bull for any need. The females include choice cows with calves by great sires and rebred . . . excellent bred heifers, mated to top herd sires and attractive open heifers. You can find sons and daughters of today's leading sires. Missouri is well known for the home of great herd bulls. This offering will be evidence of their worth as sires. If you are looking to improve your herd, you can find plenty of material here. Plan to attend. Ask now for **FREE** catalog. Kindly mention this publication. Address

MERVIN F. AEGERTER, Sale Mgr., SEWARD, NEBRASKA

Auctioneer, J. E. Halsey J. L. Bertzler, President James E. Comfort, Secretary

BANQUET: Strand Hotel, 7:00 P. M., March 15th. Everyone invited.

Buy a Bond to Help Your Country and to Help Yourself in Later Years

Coming Livestock Sales

ABERDEEN ANGUS

Mar. 8-9—Iowa State Show and Sale, Des Moines, Iowa; Gerald Parks, Secy., Ames, Iowa.
Mar. 14—Interstate Association's Show and Sale, Sioux City, Iowa; P. K. Pratt, Secy., Walnut, Iowa.
Mar. 16—Bureau County Breeders, Princeton, Ill.; Forrest Olson, Secy., Wyanet, Ill.
Mar. 19—Mercer County Breeders, Aledo, Ill.; Hugh McWhorter, Secy.
Mar. 21—Wilton Farms, Otto G. Nobiis, Davenport, Iowa.
Mar. 21—Night Sale, Eastern Iowa Assn., Davenport, Iowa; Oliver A. Hansen, Secy., Durant, Iowa.
Mar. 22—"The Jilt Jubilee of 1949," Columbus Jct., Iowa; Forrest M. Larmer, Sale Mgr., Muscatine, Iowa.
Mar. 23—Frank Bradley & Sons, Avon, Ill.
Apr. 19—Warren County Angus Breeders Assn., sale at Indianola, Iowa; Earl F. Lohr, Secy. and Mgr., Earlham, Iowa.
Apr. 22—Southeast Iowa Breeders, Mt. Pleasant, Iowa; Earl Fickel, Secy., Batavia, Iowa.
Apr. 23—Central Illinois Breeders, Congerville, Ill.; S. E. Lantz, Secy.
Apr. 25—Marion County Breeders, Knoxville, Iowa; Herbert Cline, Secy., Bussey, Iowa.
Apr. 26—Iowa Southern Angus Sale, at Osceola, Iowa; Richard Bell, Secy. and Mgr., Osceola, Ia.
Apr. 27—Page County Aberdeen Breeders Assn., Sale at Clarinda, Iowa; Lawrence Varley, Mgr., Shenandoah, Iowa.
Apr. 28—Marycrest Farms, Maloy, Iowa.
May 9—Dr. Frank H. Rose, Albany, Mo., and M. L. McCrea, Maryville, Mo.; sale at Maryville.
May 27—Hoelscher Bros., Arcadia, Iowa; sale at Carroll, Iowa.
May 31—Tallcorn Breeders Assn., Marshalltown, Iowa; C. G. Mason, Secy., Box 243.
June 6—Glyn Mawr Farms (Dispersion), Olin, Iowa.
June 13—Wayland A. Hopley, Atlantic, Iowa.
June 14—South Central Assn., Oskaloosa, Iowa; Clyde A. Hanna, Secy., Oskaloosa, Iowa.

HEREFORDS

Mar. 10—West-Central Iowa Assn., Denison, Iowa; L. S. Curran, Mgr., Floyd, Iowa.
Mar. 12—Southeast Iowa Breeders Assn., Mount Pleasant, Iowa; N. K. Hartley, Secy., Hillsboro, Iowa.
Mar. 18—Adel Hereford Sale, Adel, Iowa; Albert deWitt, Mgr., Peru, Iowa.
Mar. 19—Marion County Breeders Sale, Knoxville, Iowa; Walter L. Brown, Sale Mgr.
Mar. 22—Sioux City, Iowa; Iowa Hereford Cattle Breeders Assn.; F. W. Ketelsen, Secy., Everly, Iowa.
Apr. 4—Clifford Bell, Jr., Pulaski, Iowa; sale at Bloomfield, Iowa.
Apr. 15—Northeast Missouri Assn., Memphis, Mo.; Geo. E. Leslie, Jr., Secy.
Apr. 22—Circle A Hereford Farm, Morris, Ill.
Apr. 23—Wisconsin State Sale, Madison, Wis.; Homer Graber, Secy., Mineral Point, Wis.
June 1—Bones Stock Farm, Parker, S. D.

POLLED HEREFORDS

Mar. 10—West-Central Iowa Assn., Denison, Iowa; L. S. Curran, Mgr., Floyd, Iowa.
Apr. 13—Southeastern Iowa Breeders Show and Sale, Oskaloosa, Iowa; Calvin L. Cruzen, Mgr., New Sharon, Iowa.

SHORTHORNS

Mar. 7-8—Interstate Shorthorn Breeders, Sioux City, Iowa; F. E. Jackson, Mgr., Hurley, S. D.
Mar. 14-15—Iowa State Show and Sale, Des Moines, Iowa; Chas. Garden, Mgr., R. 6, Des Moines, Iowa.
Mar. 16—Missouri State Sale, Sedalia, Mo.; Merv. F. Aegerter, Mgr., Seward, Neb.
Mar. 18—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust, Aurora, Ill.
Mar. 24—Emory Larson (Dispersion), Harlan, Iowa, with draft from Gingery & Burns, Harlan, Iowa, and Herman Leiting, Arcadia, Iowa; sale at Carroll, Iowa.
Mar. 28—Northwest Missouri Breeders, Maryville, Mo.; James Meyer, Sale Mgr.
Mar. 29—Sioux Empire Shorthorn Club, Sioux Falls, S. D.; Al Halverson, Secy., Box 841, Sioux Falls, S. D.
Apr. 4—Southwest Iowa Breeders, Red Oak, Iowa; Roy Gilman, Mgr., Stuart, Iowa.
Apr. 30—Marellbar Frms, Libertyville, Ill.
May 23—South Central Iowa Breeders, Knoxville, Iowa, Walter Brown, Mgr.
June 4—Minnesota State Sale, Blue Earth, Minn.; N. T. Findahl, Mgr., Waterville, Minn.
June 6—Edellyn Farm, Wilson, Ill.
June 7—Chicago Land Sale, Chicago, Ill.; Hal Longley, Mgr.
June 15—Breeders Sale, Abingdon, Ill.; Hal Longley, Mgr., 16 S. Locust St., Aurora, Ill.

POLLED SHORTHORNS

Mar. 14—North Iowa Breeders, Spencer, Iowa; L. S. Gerton, Mgr., Marshalltown, Iowa.
Apr. 27—South Dakota State Assn. Sale, Sioux Falls, S. D.; Eric H. Thormodsgaard, Sale Mgr., Huron, S. D.
Apr. 28—Julius Hansen (Dispersion), Murdock, Minn.; Merv. F. Aegerter, Mgr., Seward, Neb.
May 2-3—National Congress Show and Sale, Indianapolis, Ind.
May 28—Polled Shorthorn Club of Minnesota, Slayton, Minn.; M. H. Bassett, Secy., Rushmore, Minn.

RED POLLS

Mar. 16—Breeders Sale, Yalehurst Farm, Peoria, Ill.
Mar. 16—R. Y. Bartholomew, Peoria, Ill.; sale at Normal, Ill.

DAIRY CATTLE

Mar. 21—Iowa State Holstein Assn., Waterloo, Iowa; Dallas V. McGinnis, Secy., 912 Waterloo Bldg.
Mar. 21—D. Irish and K. Hanna (Holstein Dispersal), Forest City, Iowa; Claude E. Wylam, Secy., Waverly, Iowa.
Mar. 26—Mower County Guernsey Breeders, Austin, Minn.; Carl E. Kehret, Mgr.
Apr. 14—Eastern Iowa Holstein Sale, Wellman, Iowa; P. M. Swartzendruber, Mgr.
Apr. 20—Eastern Iowa Guernsey Sale, Wellman, Iowa; P. M. Swartzendruber, Mgr.
Apr. 27—Breeders Sale (Milking Shorthorns), Council Bluffs, Iowa; H. C. McKelvie, Mgr.
Apr. 2—Iowa State Guernsey Breeders, Des Moines, Iowa; C. H. Jennings, Mgr., R. 4, Iowa City, Iowa.
June 1—Breeders Sale (Ayrshires), Council Bluffs, Iowa; H. C. McKelvie, Mgr.

BERKSHIRES

Mar. 7—Kermit L. Hougen, Radcliffe, Iowa; sale at Story City, Iowa.

CHESTER WHITES

Mar. 30—Nick Terpstra & Sons, New Sharon, Ia.

DUROC JERSEYS

Mar. 21—Kudek Bros., Riverdale, Iowa, and Harold C. Timm, Muscatine, Iowa.

HAMPSHIRES

Mar. 5—Field & Christiansen, Nora Springs, Iowa; sale at Osage, Iowa.
Mar. 8—Howard Sessholtz & Son, Melbourne, Iowa; sale at Marshalltown, Iowa.

POLAND CHINAS

Apr. 9—Iowa Poland China Breeders Assn., Cedar Rapids, Iowa; Fred W. Morgan, Secy., 3801 College Ave., Des Moines, Iowa.

SPOTTED POLAND CHINAS

Mar. 11—Homer Wicks, Radcliffe, Iowa.

LIVESTOCK FIELDMEN

M. T. WHITE, 604 No. Fortieth St., Omaha, Nebraska. Phone Walnut 1056.
J. E. HALSEY, 1912 Grand Ave., Des Moines.
M. W. BONEY, Box 740, Storm Lake, Iowa; Phone 970-R.

We publish the FIRST and THIRD Saturday of every month. Copy for livestock advertising must reach our office FIFTEEN days before date of issue.

Around the Farm AND IN THE Feed Lot

W. E. KELLOWAY
Founder of Walnut Grove

WHAT about Walnut Grove? How, when, where did it come into being? How did it get its name? The answers to these and other questions make up one of the great stories in the mineral feed industry.

Let's begin at the beginning. Some 30 years ago, W. E. Kelloway, now chairman of the board for the Walnut Grove Products Company, was feeding thousands of hogs on his Cass county, Iowa, farm. A practical farmer, Mr. Kelloway noticed some of the animals were not doing well. Nutrition was little known in livestock circles back in those days, and very few farmers had heard of minerals for stock. Though not a scientist or chemist, Kelloway was convinced there was something lacking in his feed rations, so he went to work on the problem. Using his own farm, known as "Walnut Grove," for a laboratory, he studied his feeds, planned some changes, and then experimented with his own hogs. He made many tests and comparisons, and in time developed a product that greatly helped his pigs assimilate and digest their feed.

Neighbors soon took note of what a good job Kelloway was doing with his hogs—especially with unthrifty animals he had bought from them. On learning of the mineral mixture Kelloway had developed, they insisted on "W. E.," as he was best known, supplying them with some. Their results, like those on Walnut Grove farm, were excellent. Before long those same neighbors proposed "W. E." manufacture his product and name it after his farm. Thus the name "Walnut Grove" entered the mineral field.

For over a quarter of a century, Walnut Grove has made that steady growth which is so essential to permanent and successful operation, until today it ranks at the top in the livestock mineral field. The aim of Walnut Grove and the men back of it always has been and always will be to manufacture minerals of the highest quality possible. Our thousands upon thousands of customers in the cornbelt, who feed Walnut Grove to their livestock because it produces results in their feed yards, depend upon this quality. We of Walnut Grove will always maintain that quality.

REPEATED blizzards and prolonged cold have taken a heavy toll in many western range lands. Final figures on storm losses suffered in January and February are not available yet, but when snowfall measures up to 11 feet, as was true in parts of Colorado, and temperatures drop to 50 below zero, it's mighty hard on stock. Many experts feel the worst loss is yet to come—at lambing and calving time.

DESPITE THE HARDSHIP of 20 or 30-foot drifts and complete isolation for weeks on end, western ranch families kept their chins up. When "Operation Snowbound" bulldozers reached a Nebraska farm home, the drivers were promptly offered scrambled eggs. Hens in the nearby chicken house had filled every box and pail on the place, and in addition 86 dozen eggs were stacked up on the kitchen floor.

IF THOSE FALL PIGS have not gone to market yet, it's time to start pushing them with stepped-up rations. Walnut Grove Minerals can play a very important part in these rations. These customers of ours in Tama and Benton counties, Iowa, among many others, use Walnut Grove in their feeding plans daily: Untiedt & Rehder, Vernon Ohde, John Duchacek, Henry Sedlacek, Ervin Lauterwasser, Ben Pippert, S. W. Sealock and Sam Martin & Son. These farmers are serviced by our representative in that area, Walter Herring, of Belle Plaine.

A STORY COUNTY, IOWA, livestock feeder went through some ordeal recently. He is Asher Oakes, who was trapped under several hundred bushels of corn in his crib recently, and who owes his life to the vigil of his wife and the fast work of five good neighbors. Oakes was bruised, but conscious, when his neighbors dug him out. When asked about his nightmarish experience, the central Iowa farmer said during those hours under the corn he thought of everything that ever happened to him in his life.

NOXIOUS WEEDS are still far too plentiful in Iowa. A state weed analyst, Frank Wells, reports too many noxious weed seeds are coming into the state through feed grains. He cites one case of where a pound of wheat contained 340 quack grass and 750 mustard seeds. In another case, one pound of oats had 103 quack grass and 432 Canada thistle seeds. Better make sure the grains you buy won't seed your farm to a big crop of weeds.

IT IS WISE TO GIVE those brood sows special attention in feeding. The right kind of feeds now will help produce healthier pigs at birth and quieter sows at farrowing time. Walnut Grove can play a very important part in helping to balance this kind of feed. These customers in Ida county, Iowa, along with many others, use Walnut Grove Minerals for this purpose: Dewey Johnson, Carl Huth, Elston Parker, Walter Ernst, Raymond Jensen, Peter Smith and Earl Sutherland. Our representative, Ed England, takes care of this business for us.

WE HAD BETTER FEED as efficiently as we can this year, especially when feeding our hogs to heavy weights. The lard market has already taken a sharp dip, and increased hog numbers will add still more to lard supplies. However, there is hope lard exports will remain high. Germany, France and Austria need 600 thousand pounds the next six months.

OLD-TIMERS won't like it, but there are some farm experts claiming that today's farmers are four times the men their great-granddads were. The assertion is made on the basis of one farmer today producing as much food as four did 100 years ago. Of course, it's the use of new machines and methods that has made the increase possible. Actually, "Gramp" worked much harder than we do, but he just didn't have the tools.

Livestock News

R. A. Riemenschneider, of Kingsley, Iowa, found his sale pavilion packed for his annual Chester White bred sow sale, held at the farm on February 18. Roy Kock, Bremen, Kan., paid the high of $290 for a daughter of Sunnycrest Superior and mated to Sunnycrest Climax. Willard Fee, Cherokee, Iowa, paid $240 for the good Lot No. 15, carrying an early litter by Sunnycrest Superior. Martin, Vust, Ellsworth, Minn., paid $200 and $180 for two very choice gilts. E. L. Baxter, Galva, Iowa, took four of the better gilts at average prices. Nick Terpstra, New Sharon, Iowa, gave $240 for an outstanding fall boar sired by Sunnycrest Superior. B. F. Held & Son, Hinton, Iowa, paid $130 for a litter-mate, another top fall boar. The 52 bred gilts made a general average of $141. J. E. Halsey was the auctioneer.

The Spotted Poland China sale of F. L. Jackson, of Lytton, Iowa, was held at Sac City, Iowa, February 12, and was most successful. The top, Lot 32, sold for $600 to W. A. Martin, Jacksonville, Ill. Lot 56 went at $300 to Raymond Loy, Ortonville, Minn. Lot 15 went to Fred Fuller, Iowa Falls, Iowa, for $265. Lot 53 was taken by Geo. Carl, Sheldon, Iowa, at $250. Lot 7 went to Bob Walters, of Eldora, Iowa, for $230. Lot 11 was bought by White Caps Farm, Storm Lake, Iowa, for $240. Julius Roth, Rock Rapids, Iowa, purchased Lot 9 at $220. Lot 35 went to Harold Manson, Ruthven, Iowa, for $250. The 53 lots made a general average of $198.95.

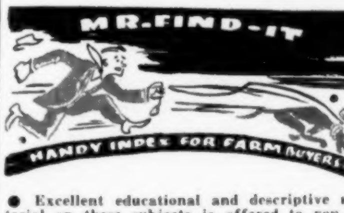
The Central Iowa Chester White sale, at Des Moines, Iowa, February 21, drew a bad day, with much ice on the roads. However, they had a very good sale. The offering of 42 head was consigned by 22 breeders. The top was consigned by Carl Steinfeldt & Son, Eldorado, Iowa, and sold for $300 to Glen Smith & Son, of Indianola, Iowa. The 42 head averaged $135 each.

Herd Boar Honors

Herd boars now can get official production registry recognition while still in active service, reports the National Association of Swine Records.

Effective this year, herd boars will be recognized on the basis of PR litters sired, as well as on the basis of PR qualifying daughters.

The new rules provide that a boar will be designated as a "PR boar" when he has sired 15 or more litters that qualify for PR.



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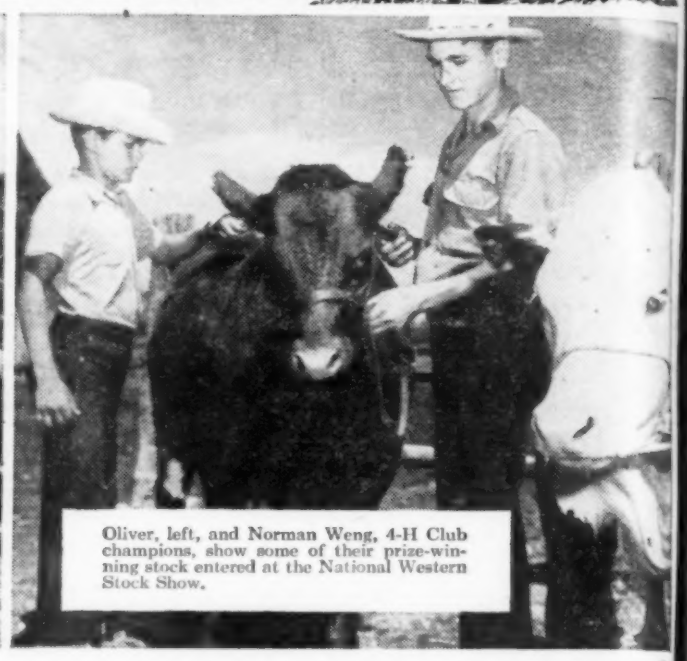
The Tank Truck

Marilyn May, left, and Arlene, daughters of Mr. and Mrs. John Weng. 9 of the 10 Weng children live at home and help with the amazingly varied farm work.



Oliver, left, and Norman Weng, 4-H Club champions, show some of their prize-winning stock entered at the National Western Stock Show.

John Weng credits Conoco N*th* Motor Oil with a spectacular tractor service record.

Conoco Helps Colorado Farmer!

There are people who say a farmer's life is dull! They should try to keep up with a farmer like John Weng, Lyons, Colo. His is a story that would make the well-known, one-armed paper hanger green with envy.

Here's his last year's production record: 65 tons of alfalfa—45 tons of native hay—3,000 bushels of barley—1,500 bushels of oats—400 tons of ensilage. But you ain't heard nothing, yet! He also raised garden vegetables for a chain of summer hotels—kept a flock of 1,000 chickens—milked 12 cows—and fed more than 300 steers!

"All of my farm machinery," Mr. Weng states, "has been lubricated with Conoco Products exclusively. I am sure this practice has saved me money.

"My experience with a 1937 John Deere G bears this out. . . . For 11 years I used this tractor to farm an average of 400 acres. In addition I used it many hours for feed grinding and other work. During those 11 years I spent only $85.63 for repairs! . . . I feel that *OIL-PLATING is responsible* for this performance."

That tractor was *extra* protected from wear by the exclusive *added* ingredient in Conoco N*th* Motor Oil. An extra film of lubricant was fastened right to the cylinder walls and other working parts. This OIL-PLATING protected the engine from metal-eating engine acids and grinding "dry-friction" starts. That's why Mr. Weng gives Conoco N*th* oil full credit for a record of so many years of trouble-free service with low repair costs.

No Shutdowns in 19 Years!

The Honorable Wesley A. D'Ewart, congressman from the great State of Montana, is a lawmaker who knows the farmers' problems. He's a farmer, himself—operates the 3,000-acre Flathead Ranch in the Shields River Valley, Wilsall, Mont. Congressman D'Ewart went to the valley in 1929, and has been a Conoco customer ever since. He says, "We have a large investment in equipment and manpower, and this necessitates uninterrupted service. Not once in 19 years have we ever been shut down due to lubrication failures. . . . Your local representative, L. E. Green, and his two able assistants . . . give us excellent service."

Good for Another 18 Years!

A pen of 3 Hereford bulls exhibited by the Snow ranch near Ferron, Utah, established the spectacular world's record price for a pen sold as a unit—$6,000. These animals were exhibited by C. H. Snow. "It takes good feed and care to produce animals such as these," says Mr. Snow, "and it takes good oil to keep tractors in top shape. . . . That is why I have been a user of Conoco Products since 1930. . . . My McCormick-Deering tractor . . . has operated every year for 18 years and is good for another 18 on Conoco N*th* Motor Oil."

Disc Weights!

Here's a way to add weight to your disc harrow. Line the disc top with tar paper. Fill with cement. Set a ring in the fresh cement. When the cement hardens, lift out the weights. Suggested by Joe Zimprich, R. 1, Janesville, Minn.

To Mend Sacks!

Every farm woman knows what a thankless job it is to mend sacks, says Mrs. Irving E. Wood, Bowman, N. D. But here's a way that makes it easy. Just use linoleum paste to attach the patches to the sacks!

PRIZES FOR IDEAS!

Send your original ideas to *The Tank Truck* in care of this paper—and get a genuine $8 D-15 Henry Disston Hand Saw for every idea that's printed!

Cheese!

. . . by Mrs. George R. Hackney, R. 2, Greenville, Tex.

1 qt. curd* — ½ lb. butter
1 t. soda — ¼ tablet cheese coloring
2½ t. salt — 1 cup very thick sour cream
*1½ gal. clabber milk makes 1 qt. curd

Put all ingredients except cream all together in top of double boiler and cook until smooth, stirring constantly. Add 1 cup very thick sour cream and cook a few minutes longer. Remove from fire and set aside to cool, stirring occasionally. If you want a thicker cheese, use less cream. Pimentos, pineapple, etc., may be added just before pouring up. Cheese is ready for use as soon as cold.

Send your favorite recipes to Mrs. Annie Lee Wheeler, Conoco Cafeteria, Ponca City, Okla. Get a $7.50 pair of genuine Wiss Finking Shears for each recipe printed here with your name. If duplicates are received, the one to be published will be determined by Mrs. Wheeler. All recipes sent in become the property of Continental Oil Company.

FARM KITCHEN

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